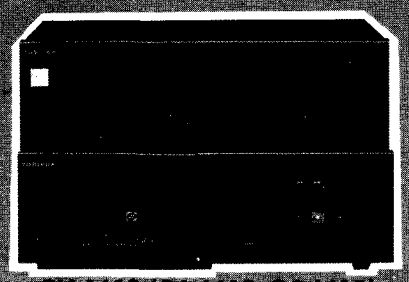
SERVICE DATA
FILE NO. 170-207

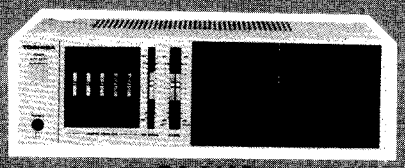
TOSHIBA

STEREO CASSETTE RECEIVER SYSTEM

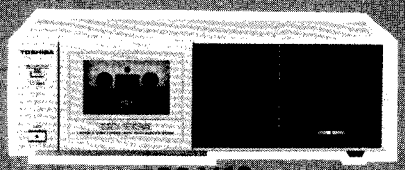
SK-V10 SA-V10 PC-V10



SK-V10 (SA-V10, PC-V10)



SA-V10



PC-V10

SPECIFICATIONS

SA-V10

Amplifier Section

Rated output power: 22W per channel, 5% THD, at 8 ohms, 1 kHz

Continuous Power Output is 20 watts per channel, min. RMS at 8 ohms from 40 to 20,000 Hertz with no more than 5% total harmonic distortion. (TA, TC)

Total harmonic distortion: 0.05% at half rated output power, 8 ohms, 1 kHz

Input terminals: MIC (Mono, 6.3mm diameter), AUX, PHONO

Output terminals: Headphone, speakers

Graphic equalizer: Center frequencies: 63 Hz, 250 Hz, 1 kHz, 4 kHz, 12 kHz
Adjustment range: ±10 dB

S/N ratio: Phono: 70 dB
Aux: 85 dB

Tuner Section

Frequency range:
FM: 87.5 – 108 MHz
AM: 530 – 1620 kHz
(TA, TC)
FM: 87.5 – 108 MHz
MW: 531 – 1602 kHz
LW: 155 – 281 kHz
(TE, TU, IT)
FM: 87.5 – 108 MHz
MW: 531 – 1602 kHz
SW: 5.8 – 16.5 MHz
(VF)

Sensitivity:
FM: 2.5μV, 13 dBf (300 ohms)
AM: 500μV/m (loop antenna)
(TA, TC)
FM: 1.0μV, 11.2 dBf (75 ohms)
MW: 500μV/m (loop antenna)
LW: 900μV/m
(TE, TU, IT)
FM: 1.0μV, 11.2 dBf (75 ohms)
MW: 500μV/m (loop antenna)
SW: 30μV
(VF)

S/N ratio:
FM mono: 75 dB
FM stereo: 68 dB
AM: 50 dB
(TA, TC)
FM mono: 70 dB
FM stereo: 60 dB
MW: 50 dB
LW: 50 dB
(TE, TU, IT)
FM mono: 75 dB
FM stereo: 68 dB
MW: 50 dB
SW: 45 dB
(VF)

Stereo separation: 30 dB (at 1 kHz)

General

Power supply:
120V/60 Hz (TA, TC)
220V/50 Hz (TE, IT)
240V/50 Hz (TU)
110-127/220-240V, 50/60 Hz (VF)

Power consumption: 86 watts (TA, TC)
125 watts (TE, TU, VF, IT)

Dimensions: 340 x 107 x 267 mm

Weight: 3.9 kg

PC-V10

Track system: Stereo

Recording system: AC bias (85 kHz)

Wow and flutter: 0.045% (WRMS)

Frequency response: 30 – 17,000 Hz (Metal tape)

S/N ratio: 58 dB (peak level, weighted)

Heads: Erase: 1
Rec./pb: 1

Motors:
Capstan motor (electronically controlled DC type): 1
Reel motor (DC motor): 1
Control motor (DC motor): 1

General

Power supply: Received from the SA-V10

Dimensions: 340 x 114 x 252 mm

Weight: 2.7 kg

SK-V10-K: TA, TC, VF, SA-V10-S/K: TE, SA-V10-K: TU, IT, PC-V10-S/K: TE, PC-V10-K: TU

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1. OPERATING CONTROLS

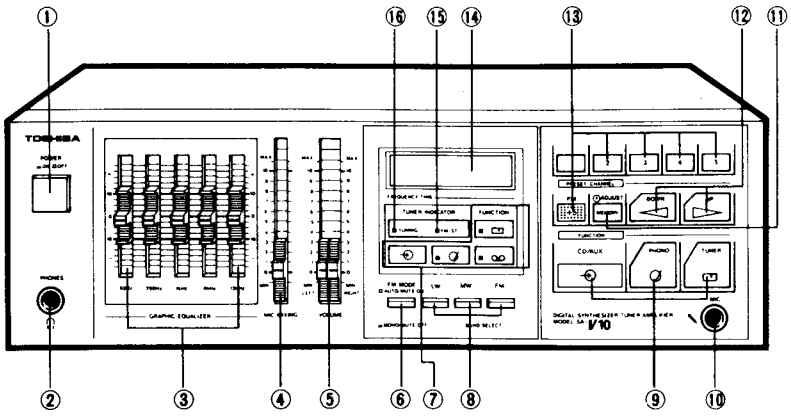


Figure 1

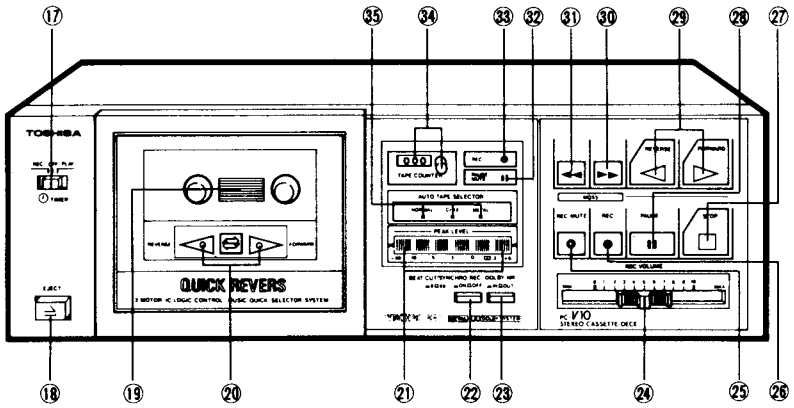


Figure 2

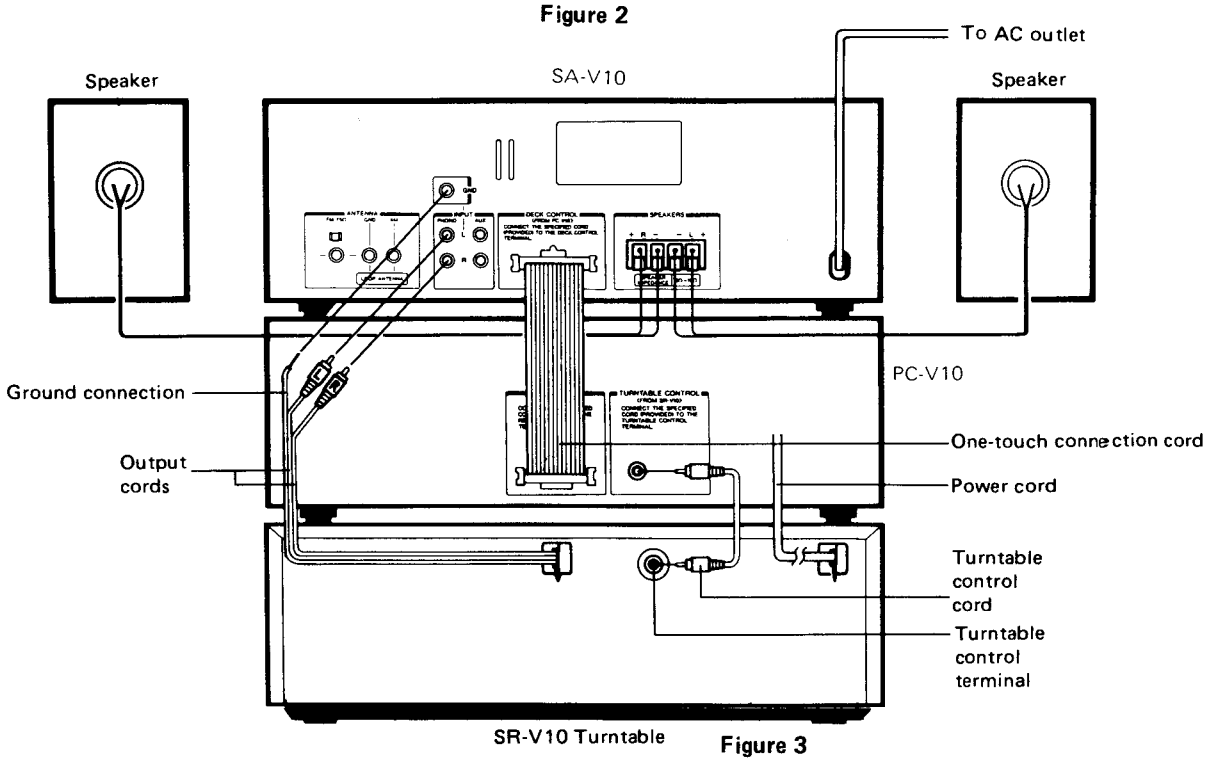


Figure 3

CAUTION: Before returning the unit to the customer, check that the resistance between both blades of AC plug and any accessible metal parts is more than 3MΩ after completion of servicing, using the circuit tester. (TA Model only)

SA-V10 (Receiver Unit)

① **POWER Switch**

② **PHONES Jack**
A set of stereo headphones having a 6.3mm plug can be connected to this jack.

③ **GRAPHIC EQUALIZER Level Controls**
These five level controls permit response to be adjusted individually in five different frequency bands centered at the frequency shown below each control. During recording, the positions of the level controls have no effect on the signal being recorded, although it does affect the signal heard if the recording is monitored.

④ **MIC MIXING Control**
This adjusts the balance between the microphone volume and the input source used for mic mixing operation. It should be left in the MIN position at all times except when using the mic mixing function.

⑤ **VOLUME Control**

⑥ **FM MODE Button**
Set this button to the MONO/MUTE OFF (⏤) position if FM stereo broadcasts are noisy.

⑦ **FUNCTION Indicator**
Lights to show which function has been selected.

⑧ **BAND SELECT Buttons**
Use to select MW, LW (SW) or FM reception.
Use to select AM or FM reception.

⑨ **FUNCTION Selectors**
Press one of these selectors to listen to the corresponding source. There is no tape selector because the tape mode is automatically activated when the PC-V10 ▶ FORWARD or ◀ REVERSE play button is pressed. If the SR-V10 turntable is used, the phono mode is also automatically activated when the turntable START button is pressed.

- If one of the function selectors is pressed while the deck is in the playback, fast forward or rewind mode, tape transport will be immediately stopped.

⑩ **MIC Jack**
Connect a microphone having a 6.3mm plug and an impedance of between 600 ohms and 10 kohms to this jack. Turn the volume control down before inserting and removing the microphone jack.

⑪ **MEMORY/ ◴ ADJUST Button**
Press this button to place the radio station currently being heard in the memory. This button is also used when setting the present time.

⑫ **DOWN/UP Buttons**
Use these buttons to tune in a radio broadcast or set the present time.

⑬ **PRESET CHANNEL Buttons**
Use these buttons to listen to a radio station stored in the memory.

⑭ **FREQUENCY/TIME Display**
Shows the present time at all times (even when the power is turned off) except when a radio broadcast is being heard. When the unit is in the tuner mode, this display shows the tuned frequency for about two minutes after which it returns to the present time mode. The display is switched back to the frequency mode if one of the PRESET CHANNEL or DOWN/UP buttons is pressed.

⑮ **FM-ST Indicator**
Lights when an FM stereo broadcast is being received.

⑯ **TUNING Indicator**
Lights when the optimum tuning point of a radio broadcast has been reached.

PC-V10 (Deck Unit)

⑰ **TIMER Switch**
Use this switch to perform timer recording or playback. It should be left in the OFF position at all other times.

⑱ **▲ EJECT Button**
Press to open the cassette door when the deck is in the stop mode.

⑲ **Cassette Door**

⑳ **Tape Transport Direction Indicator**

㉑ **PEAK LEVEL Meter**
Shows the input level during recording and the output level during playback.

㉒ **BEAT CUT/SYNCHRO REC Button**
Depress to the ON (⏤) position to use the synchronized recording function when the SR-V10 turntable is being used.
If beat interference occurs when recording an AM (MW or LW) radio broadcast, set to the position at which the beat noise is lower.

㉓ **DOLBY NR* Button**
Depress to the IN (⏤) position to make a recording using Dolby Noise Reduction or play back a Dolby encoded tape.

㉔ **REC VOLUME Control**
Use this control to set the recording input level.

㉕ **O REC MUTE Button**
When this button is pressed while a recording is being made, a blank section of tape is inserted for as long as the button is held down and the PAUSE/MUTE indicator flashes on and off.

㉖ **● REC Button**
Press the ▶ FORWARD or ◀ REVERSE button while holding this button down to start recording (REC indicator lights).

㉗ **■ STOP Button**
Press to stop tape transport.

㉘ **▮▮ PAUSE Button**
Press during recording or playback to temporarily stop tape transport and press again to continue. The PAUSE/MUTE indicator lights when the pause mode is activated.

㉙ **▶ FORWARD**
Play Button
◀ REVERSE

㉚ **▶▶ Fast Forward Button**
Press to wind the tape rapidly to the right and to use the MQSS function

㉛ **◀◀ Fast Forward Button**
Press to wind the tape rapidly to the left and to use the MQSS function

㉜ **PAUSE/MUTE Indicator**
Lights when the pause mode is activated and flashes on and off while the recording mute function is being used.

㉝ **REC Indicator**
Lights when the deck is in the recording mode.

㉞ **TAPE COUNTER and Reset Button**

㉟ **AUTO TAPE SELECTOR Indicator**
The type of the cassette inserted is automatically detected and displayed by this indicator.

* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Caution: If batteries are not inserted, the SA-V10 tuner functions will not operate even if the unit is plugged in and the power switch is on.

2. DISASSEMBLY INSTRUCTIONS

■ **TOP COVER REMOVAL (SA-V10)**

1. Remove six screws Ⓐ , Ⓑ & Ⓒ , and the top cover will be removed.

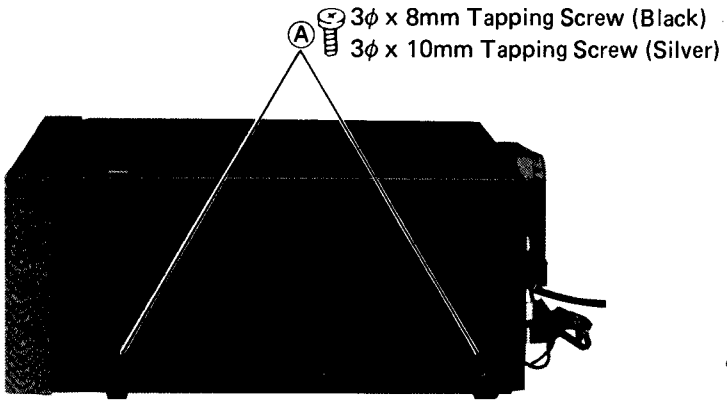


Figure 4

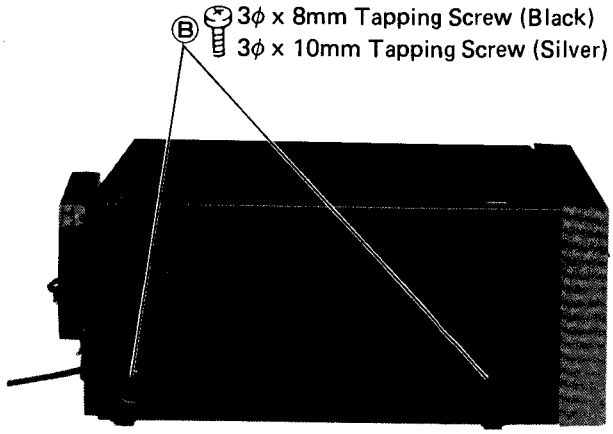


Figure 5

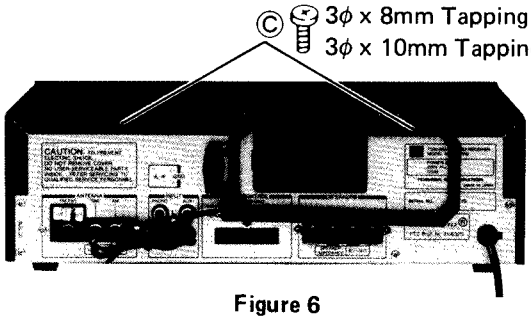
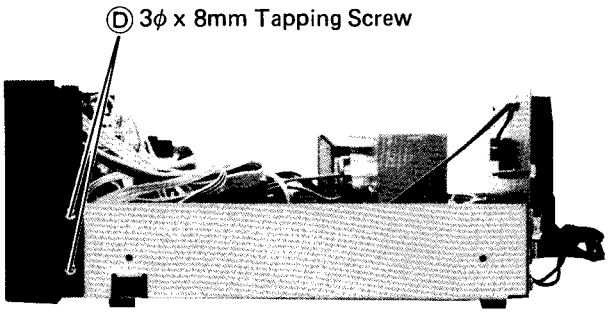


Figure 6

■ **FRONT PANEL ASSEMBLY (with P.C. BOARD) REMOVAL**

1. Remove four screws Ⓓ , Ⓔ , & Ⓕ , and the front panel assembly will be removed.



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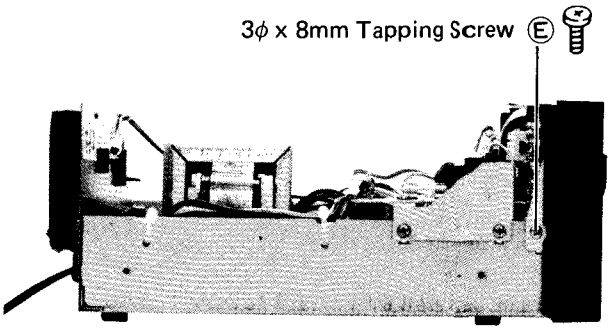


Figure 8

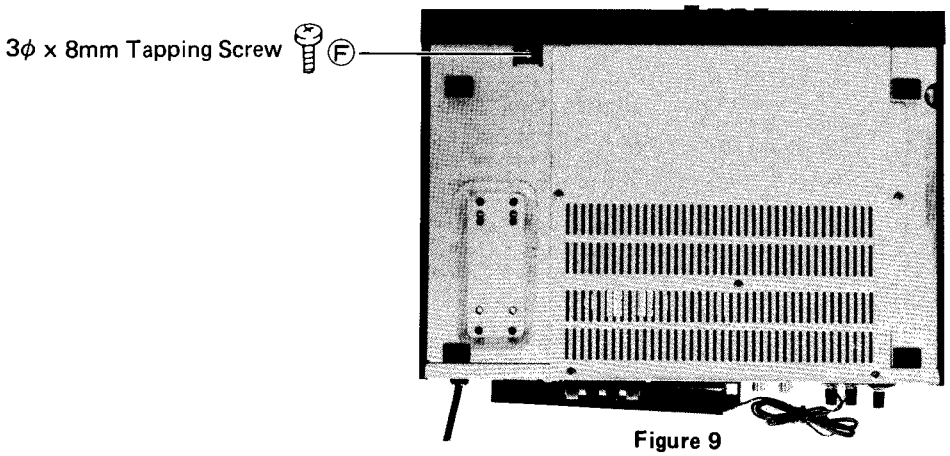


Figure 9

■ BOTTOM PLATE REMOVAL

1. Remove five screws Ⓖ, and the bottom plate will be removed.
   - Liquid crystal display indicates "MW" for AM broadcast.
   - Without batteries, tuner section cannot be operated.

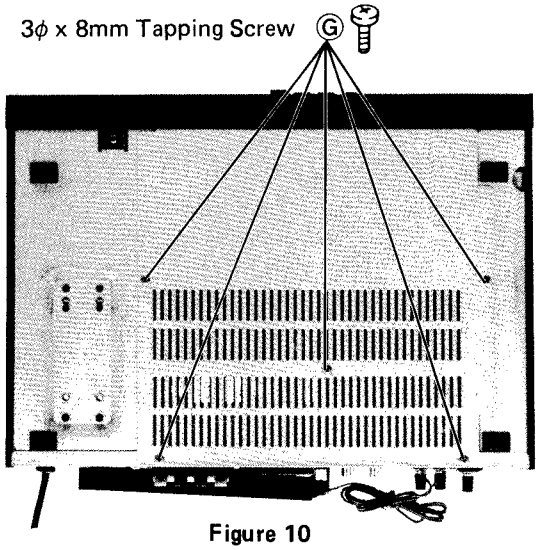


Figure 10

■ TOP COVER REMOVAL (PC-V10)

1. Remove six screws Ⓐ, Ⓑ & Ⓒ, and the top cover will be removed.

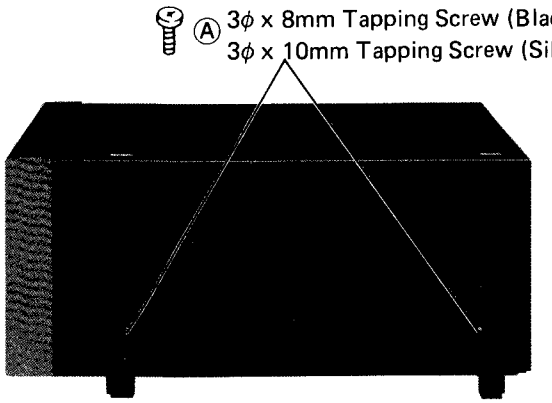


Figure 11

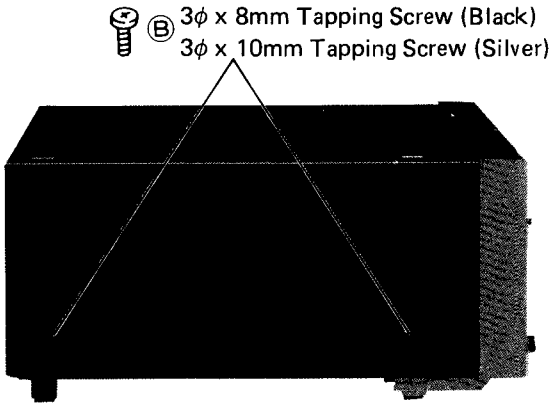


Figure 12

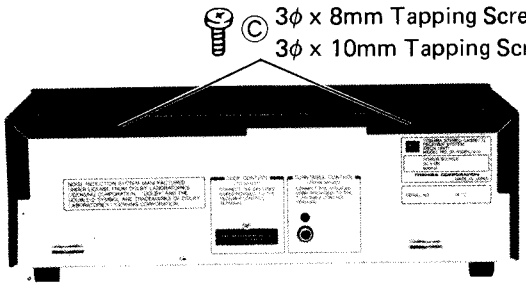


Figure 13

■ FRONT PANEL ASSEMBLY (with MECHA ASSEMBLY AND P.C. BOARD) REMOVAL

1. Remove four screws Ⓓ, Ⓔ, Ⓕ & Ⓖ, and the front panel assembly will be removed.

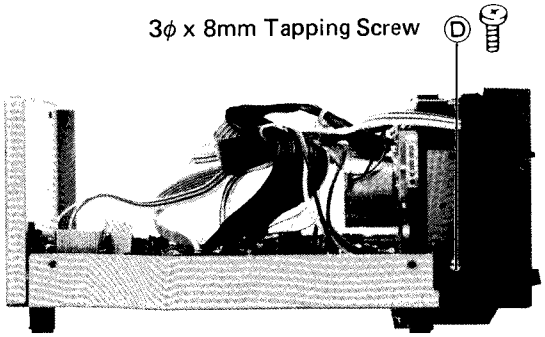


Figure 14

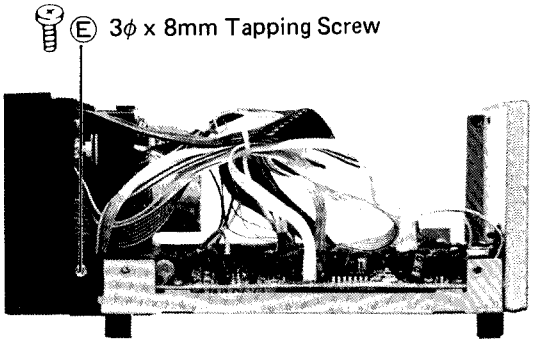


Figure 15

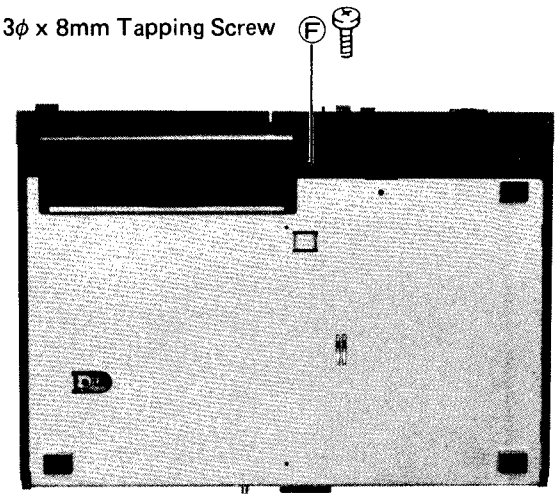


Figure 16

■ **MECHANISM ASSEMBLY REMOVAL**

1. Remove cassette cover.
2. Remove four screws Ⓗ , and the mechanism assembly will be removed.
   * When removing mechanism assembly, counter belt may be removed. Take care not to lose the belt.

■ **P.C. BOARD REPAIR AND INSPECTION**

1. Remove three screws Ⓘ securing P.C. Board, one connector screw Ⓙ , and one pin jack plastic rivet Ⓚ . First, move P.C. Board toward panel side slightly, then remove the P.C. Board. The P.C. Board can be hooked on slots provided upper jack plate and bottom plate for easy inspection.

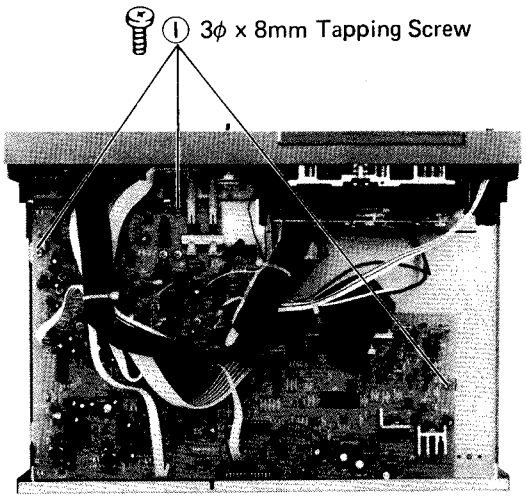


Figure 20

■ **CAUTION WHEN REMOVING DOLBY AND SYNCRO REC KNOBS**

1. Remove the knobs from their switches with the switches set to OFF, or the switches may be damaged.

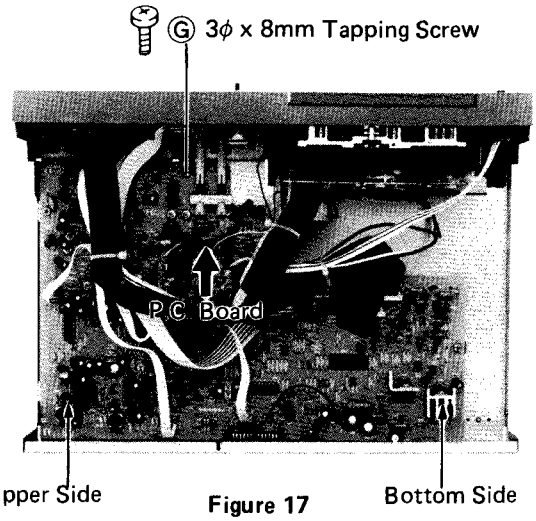


Figure 17

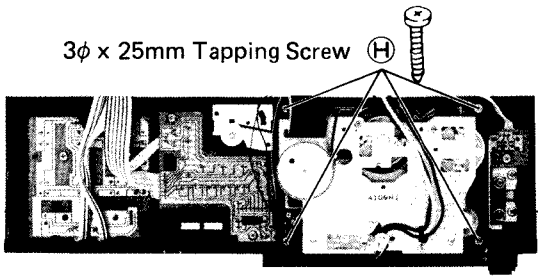


Figure 18

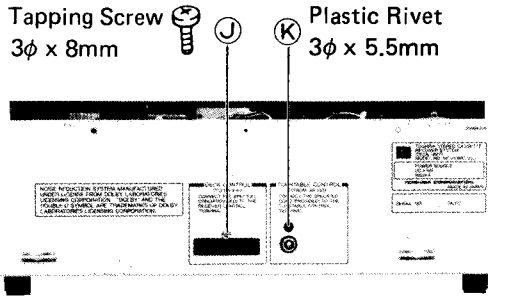


Figure 19

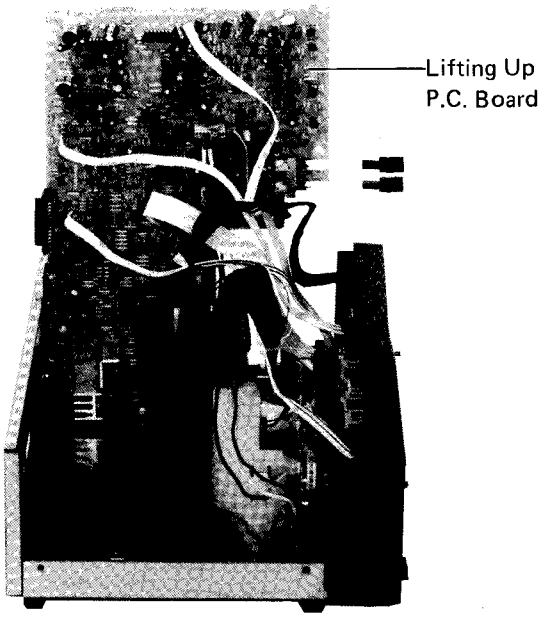
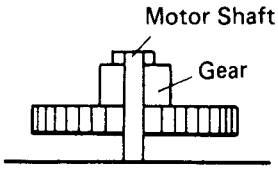


Figure 21

3. MOUNTING OF MECHANISM PARTS

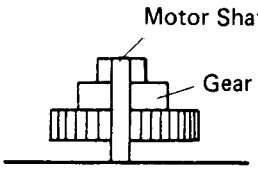
MOTOR GEAR MOUNTING POSITION

1. When mounting gear to motor shaft, press the gear until it is flush with top of the motor shaft.



Assist Motor

Figure 22



Reel Motor

Figure 23

BELT THREADING

1. First thread the belt around the flywheel and then temporarily secure the belt to the protruding part of chassis. Mount the motor and motor mounting plate. Remove the belt from the protruding part and thread it to the motor pulley.

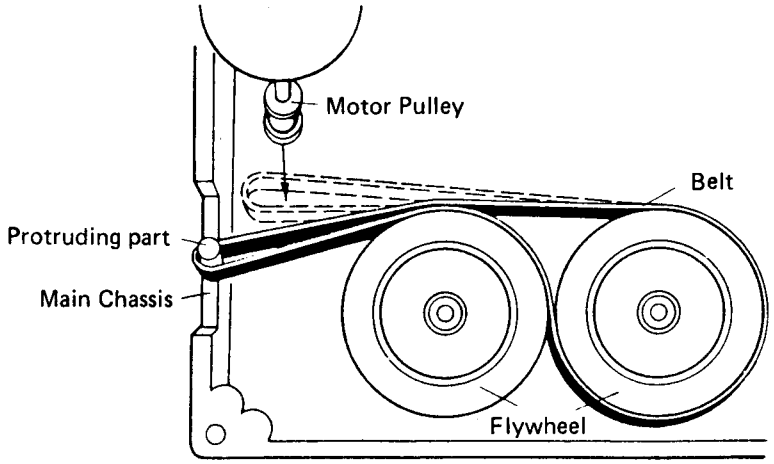


Figure 24

POSITIONS OF REEL MOTOR AND ASSIST MOTOR

1. Make sure ( ) marks are positioned as illustrated.

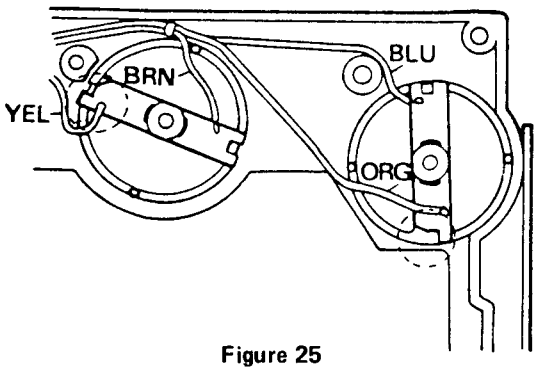


Figure 25

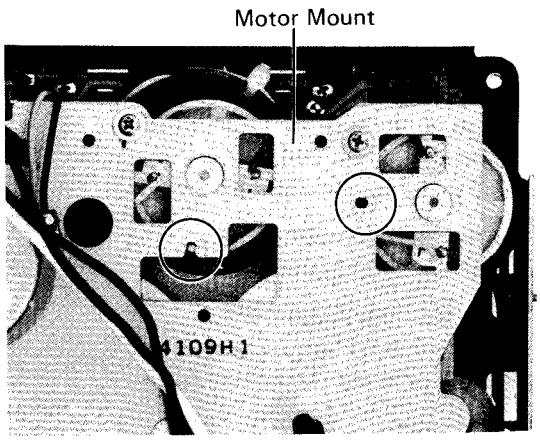
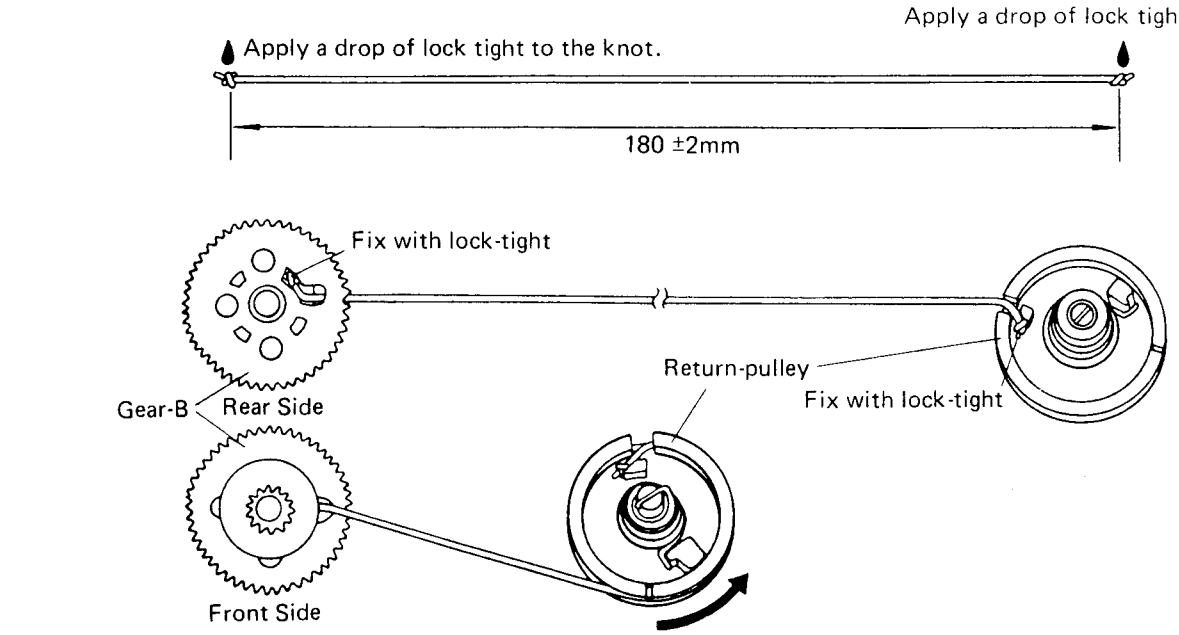
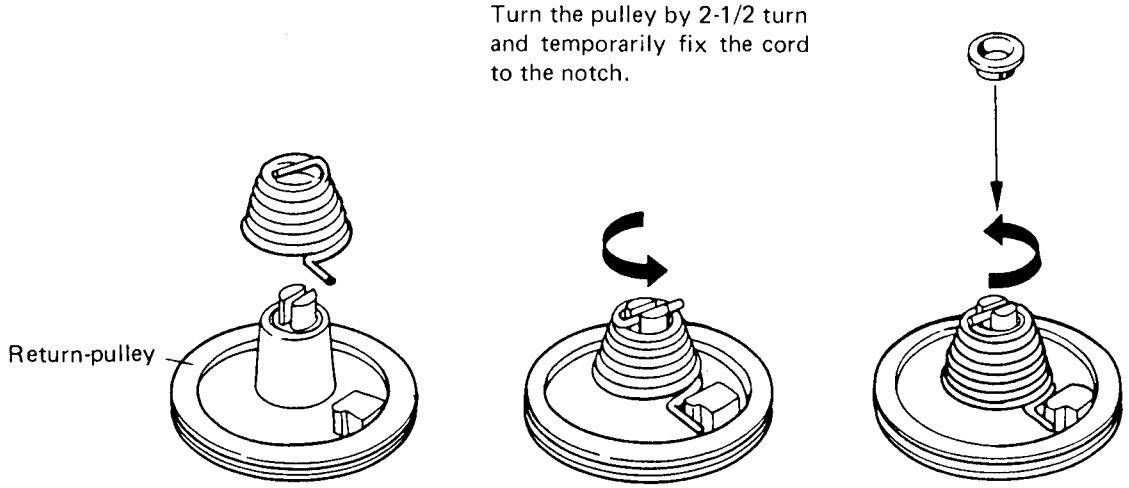


Figure 26

RETURN-PULLEY THREADING



Turn the pulley by 2-1/2 turn and temporarily fix the cord to the notch.



Mount pulley on chassis an insert coil spring as shown.

Fix lower side of coil spring as shown above, then rotate upper side of the spring by 1/2 turn and fix the spring end to the shaft temporarily.

Further rotate the shaft by 1/2 turn and secure the spring end with bush as illustrated.

Figure 27

(Tape Head Height Adjustment)

1. Coarse Alignment of Tape Guides

Temporarily adjust both left and right tape guide height adjusting nuts so that they are positioned flush with the top of the shafts as shown in the right figure (A).

2. Azimuth Alignment

Refer to No. 1 of alignment method of next page.

3. Tape Running Alignment

Inspect status of tape travels in both forward and reverse directions using the mirror cassette and make sure no tape curling is occurred at the head guides in both directions of the tape travel.

4. Realignment

If tape curling is observed, readjust both tape guide adjusting nuts precisely until the curling is disappeared, by repeating the adjustment 2 ∿ 3 times.

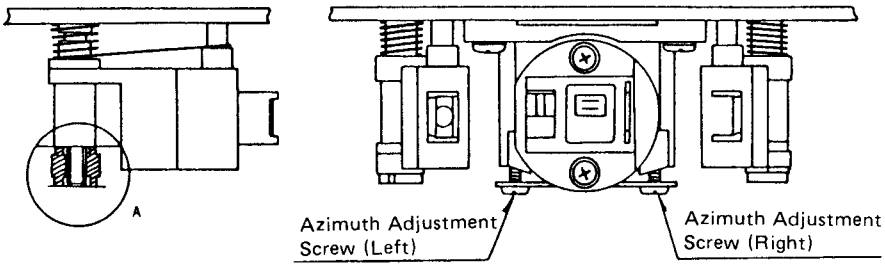


Figure 28

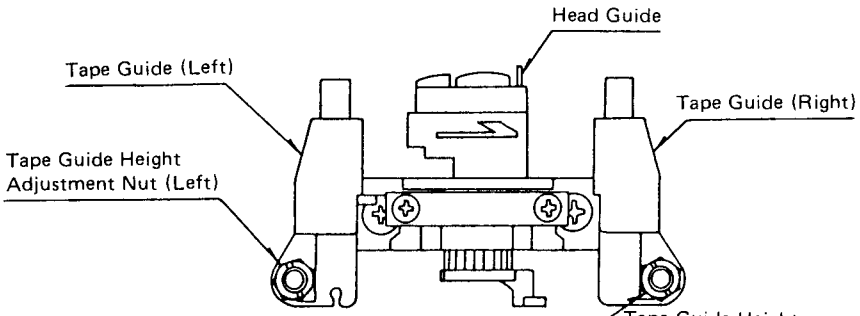
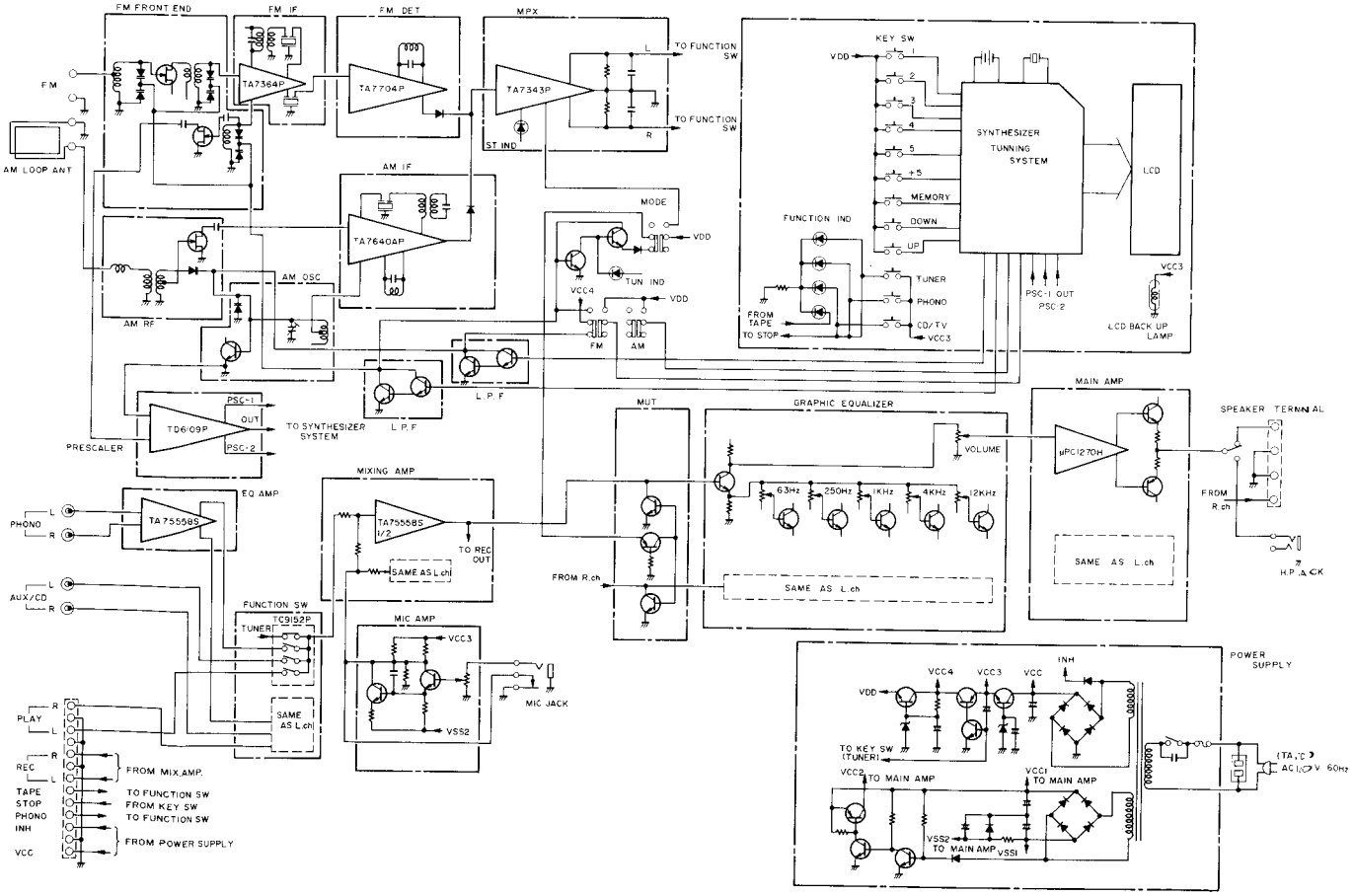

Head Guide
Tape Guide (Left)
Tape Guide (Right)
Tape Guide Height Adjustment Nut (Left)
Tape Guide Height Adjustment Nut (Right)

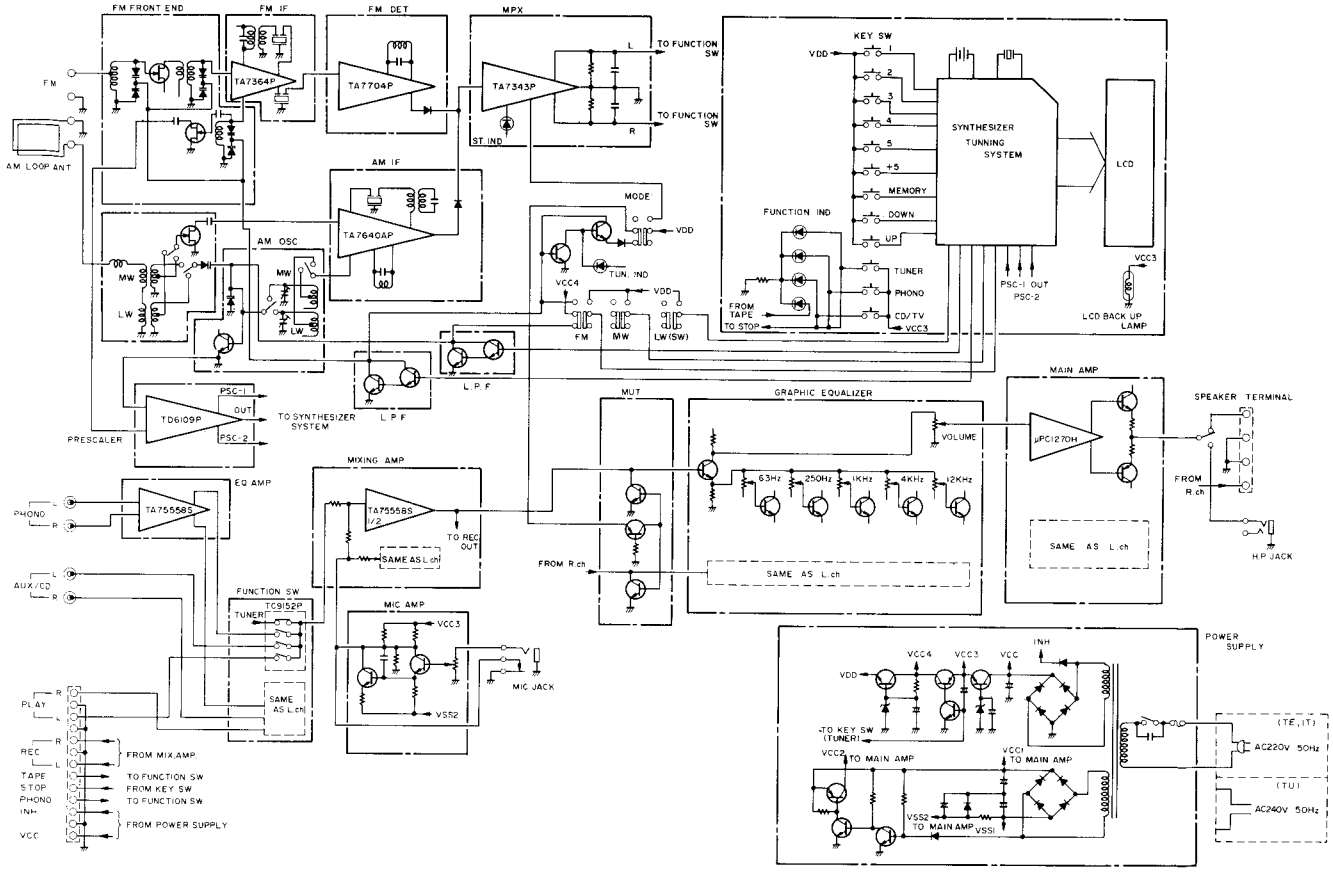
Figure 29

SA-V10 TA, TC MODEL

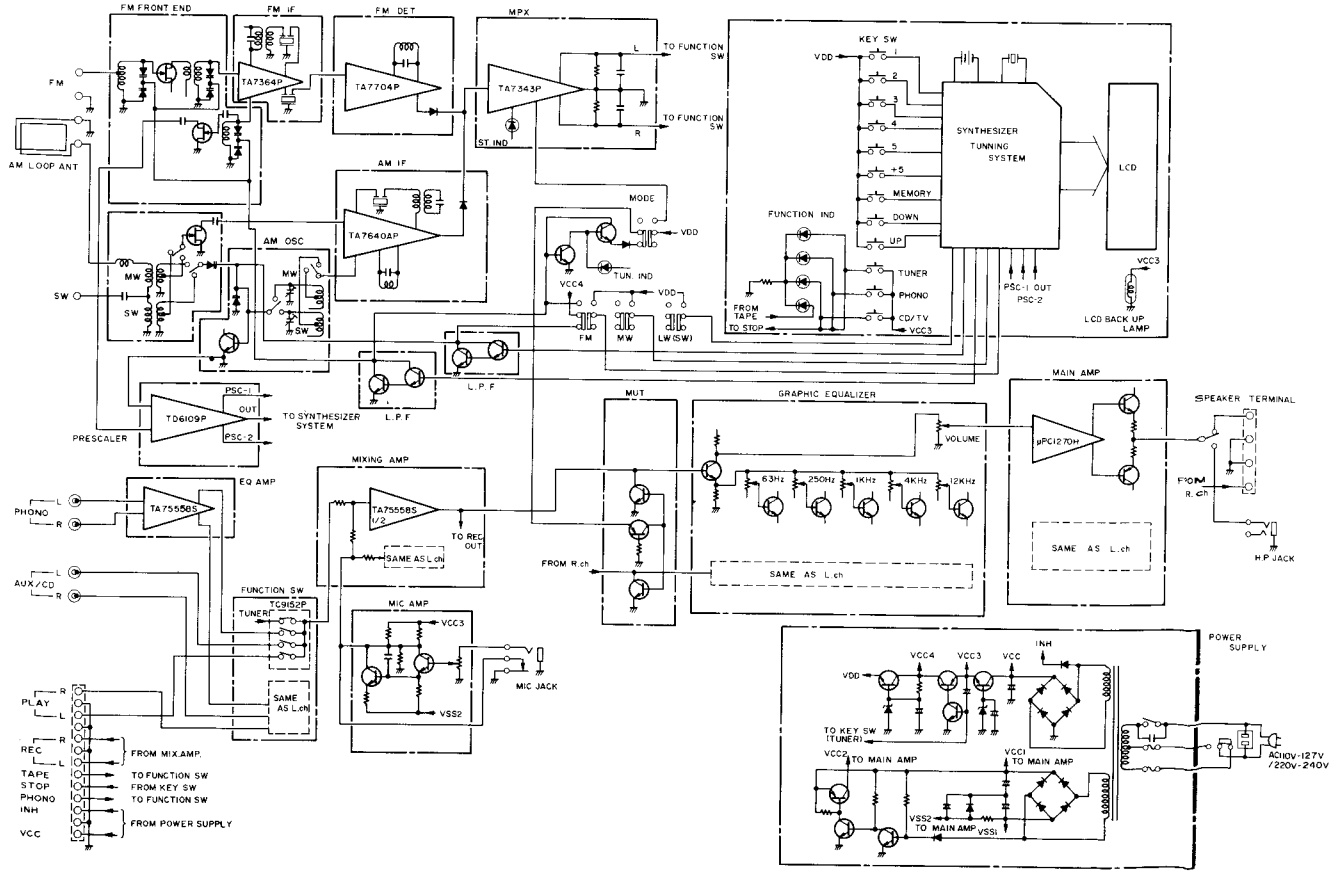
4. BLOCK DIAGRAM



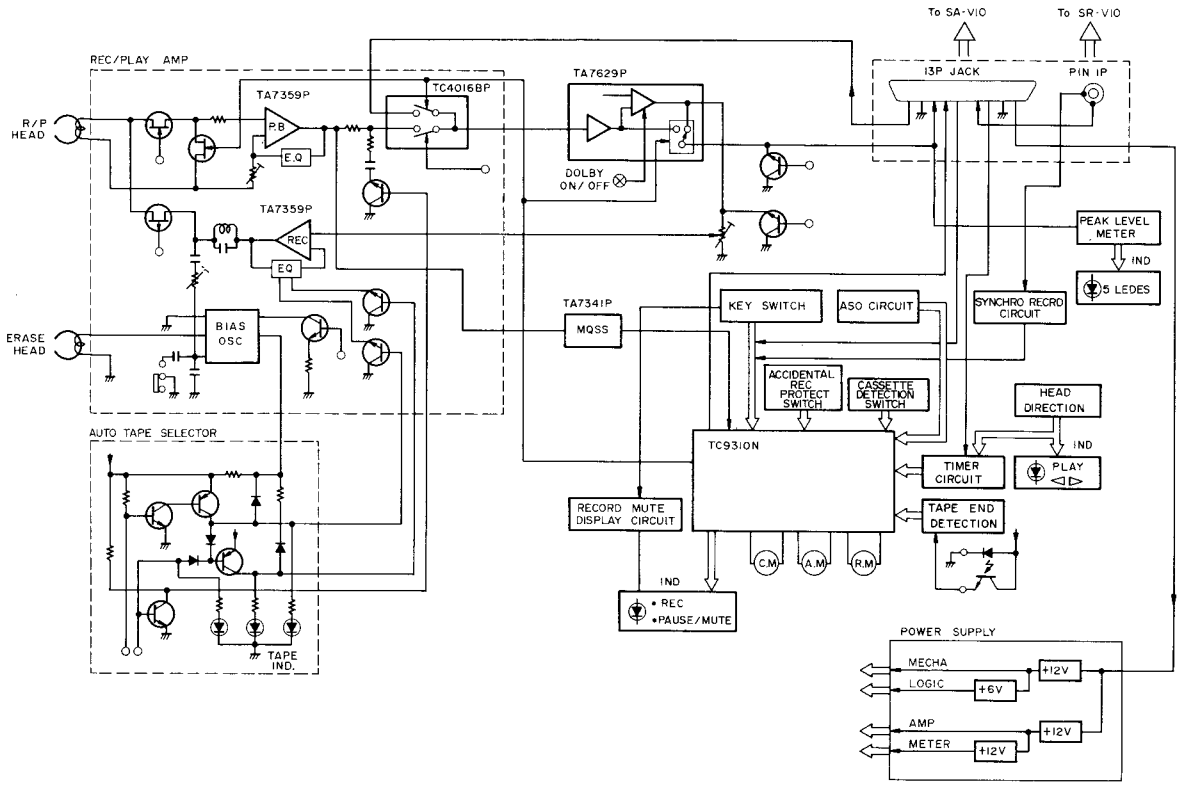
TE, TU MODEL



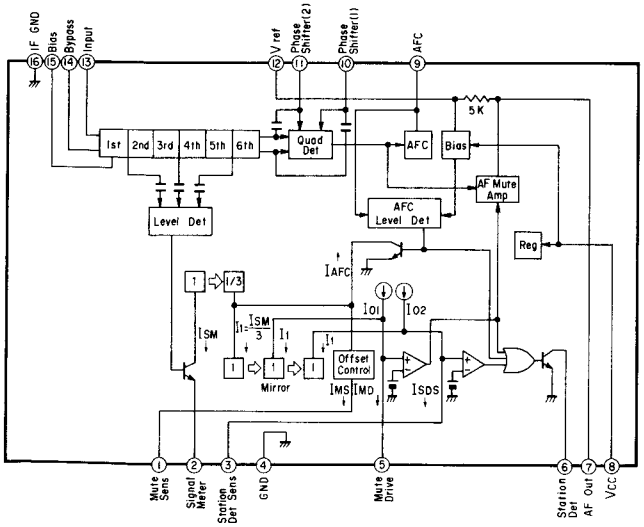
VF MODEL



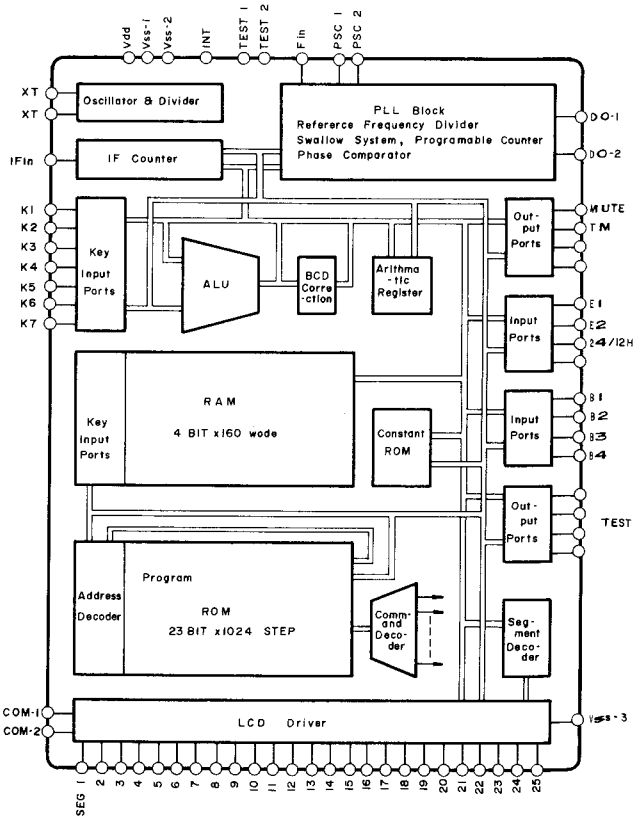
PC-V10



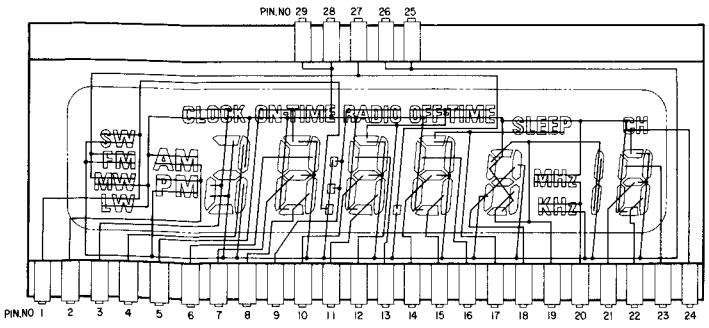
SA-V10 Q103 TA7704P



SA-V10 Q706 TC9300F-003A-UL



SA-V10 Q707 LCD LT5065-30P1Q


PIN.NO 29 28 27 26 25
CLOCK ON TIME RADIO OFF TIME SLEEP
SW
FM
MW
LW
AM
PM
MHz
KHz
PIN.NO 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

SA-V10 5. ADJUSTMENTS

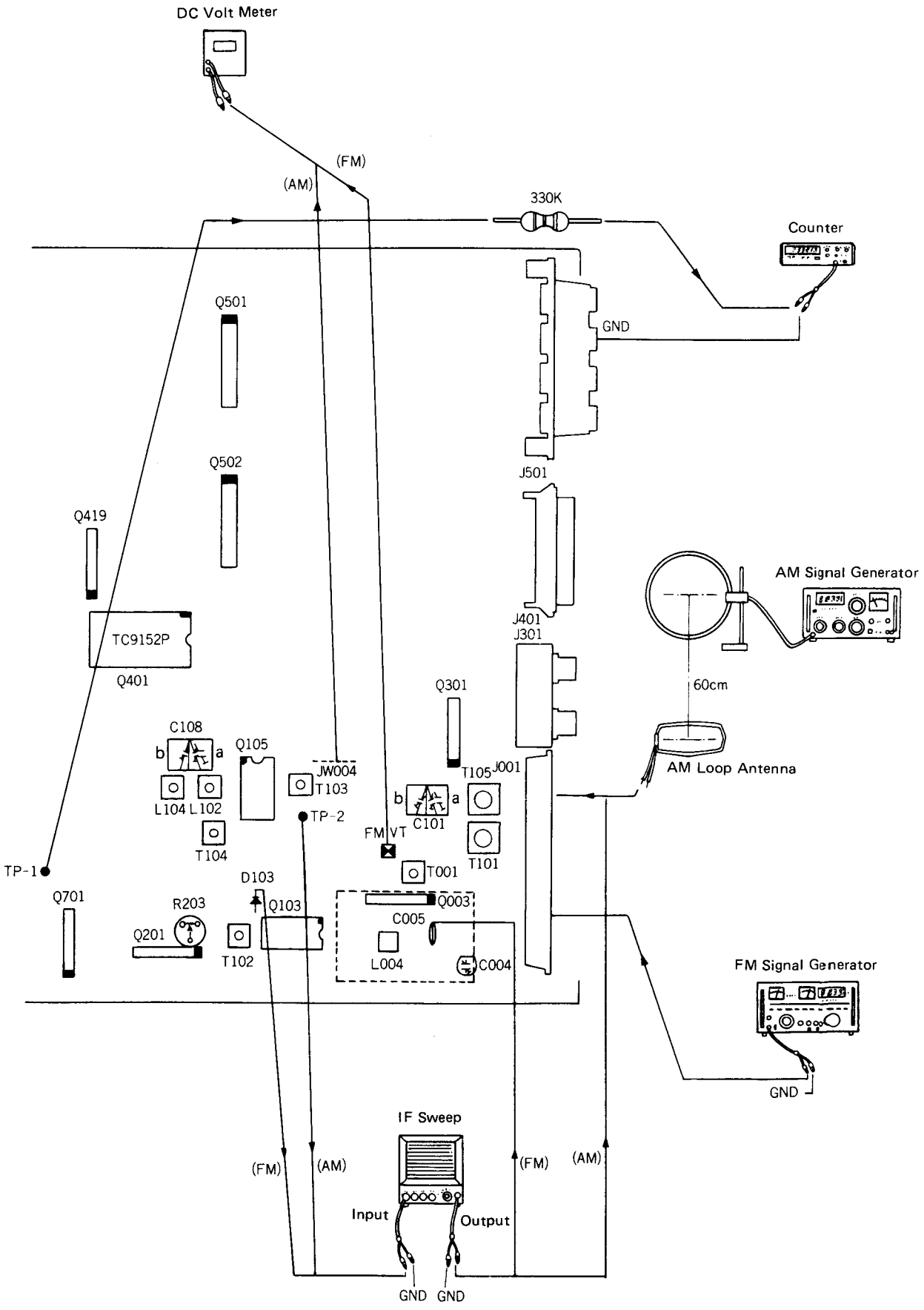


Figure 30

Adjustment

Step	Item	Input Circuit Setup	Output Circuit Setup	Tuner Setting	Adj. Point	Adjustment
	Unless otherwise specified set switches as follows: **FM Function : FM** **Adjust generator frequency to a center of the FM band where no FM broadcast exists.**					
1	IF Adjustment	Connect FM IF sweep output terminal to C005 coil.	Connect D103 cathode terminal to IF sweep input terminal.	fmin band end	T001 T102	Adjust for straight and symmetrical S-curve with max. amplitude.
2	Band End (1)	–	Connect DC voltmeter to pin FM VT.	108.0 MHz	L004	7.5V (Diode 1SV147) or 8V (Diode KV1310)
	Band End (2)	–	Same as above			
3	Tracking	95.5 MHz 1 kHz, ±75 kHz dev.		95.5 MHz MONO	C004	Adjust for max. output and best waveform.
4	VCO	95.5 MHz 0 dev. 60 dB (ANT input)	IC(Q201) 6 pin or TP-2	95.5 MHz	R203	38 kHz ±0.1 kHz
	MW	**Function : MW**	**(Diode 1SV149, 1SV100 or SVC321SPZ)**			
1	IF Adjustment	Connect IF sweep output terminal to ANT terminal.	Connect IF sweep input terminal to TP-1 or C129 ⊕ terminal.	fmin band end	T103 T104	Adjust for max. amplitude with symmetrical response at 450 kHz.
2	Band End (1)	–	Connect DC voltmeter to JW004.	TA 530 kHz TE (531) kHz	L102	0.7 ∿ 0.9V
3	Band End (2)	–	Same as above	TA 1620 kHz TE (1602) kHz	C108a	10V
4	Tracking (1)	TA 630 kHz TE 622 Hz 400 Hz, 30% mod		TA 630 kHz TE 622 kHz (631)	T101	Adjust for max. output and best waveform.
5	Tracking (2)	TA 1330 kHz TE 1322 kHz 400 Hz, 30% mod.		TA 630 kHz TE 1322 kHz (1331)	C101-a	Same as above
	LW (SW)	**Function : LW (SW)**				
1	Band End (1)	–	Connect DC voltMeter to JW004	155 kHz (5.8 MHz)	L104	0.7V ∿ 0.9V (1.0V)
2	Band End (2)	–	Same as above	281 kHz (15.5 MHz)	C108-b	10V
3	Tracking (1)	165 kHz (6.75 MHz) 400 Hz 30% mod.		165 kHz (6.75 MHz)	T105	Adjust for max. output and best waveform.
4	Tracking (2)	235 kHz (13.4 MHz) 400 Hz, 30% mod.		235 kHz (13.4 MHz)	C101-b	Same as above

CAUTION: When realigning the FM Receiving Frequency, the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in West Germany.

PC-V10

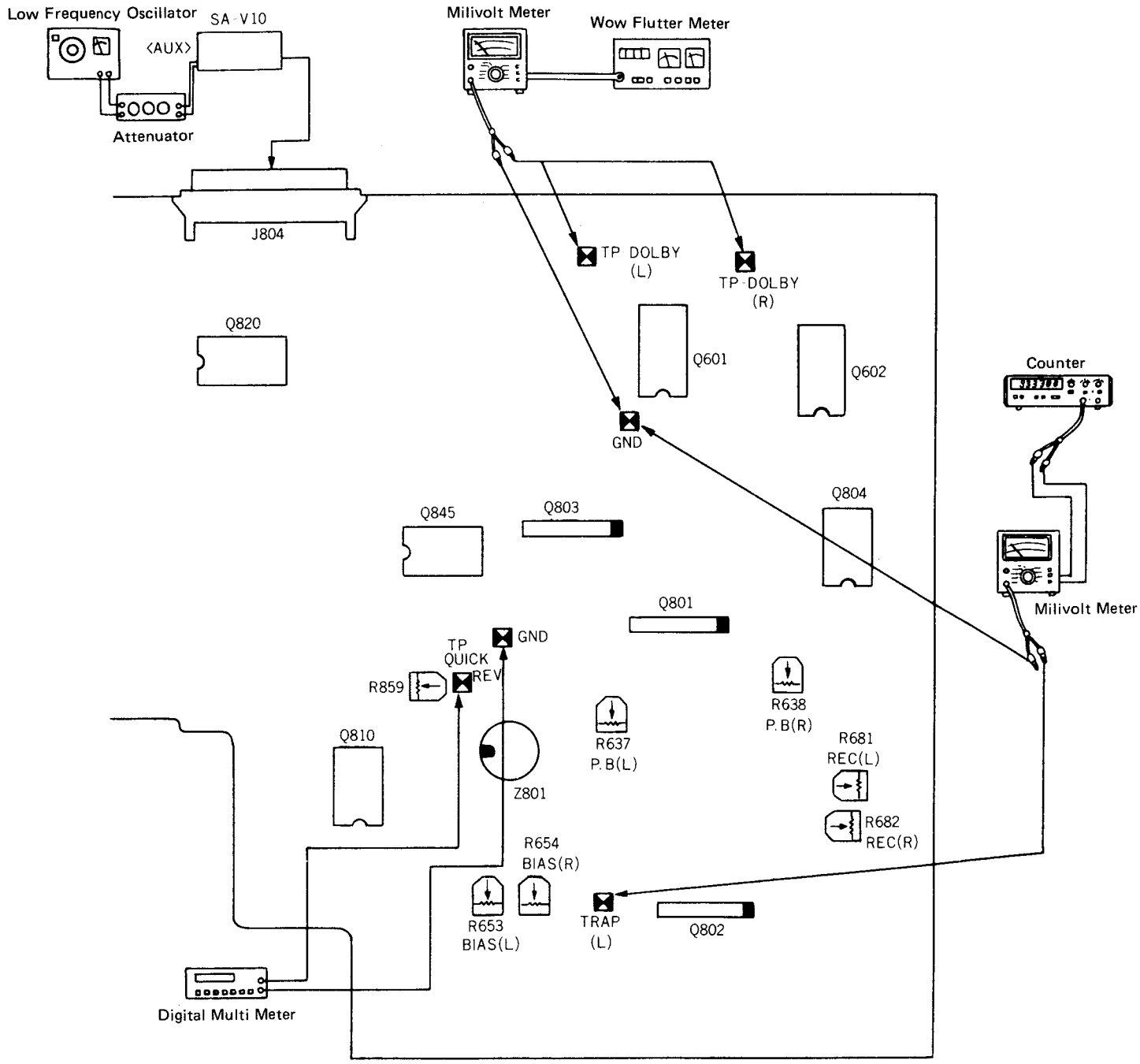


Figure 31

MEASUREMENT CONDITION

Power supply voltage: AC 120V, 220V, 240V, 110-127/220-240V (SA-V10)
Input: 0 dB = 1 Vrms
F: Forward R: Reverse

No.	Item	Reference Value	Tape Used	Volume REC	Switch SYN·REC	Switch DOLBY	Test Point	Adjustment Point	Input Frequency ATT	Remarks
1	PLAY Torque Adjustment	30 ~ 50g · cm	Torque	–	–	OUT	–	–	–	
2	Head Azimuth Adjustment F	L. R ch peaks	ATT-114	–	–	OUT	TP-DOLBY (L. R)	Head Azimuth Adjustment Screw	(Tape A-side)	Left side screw (If left and right channel peak positions are different, set the screw at the center of both peaks. Then lock the screw, applying lock-tite 45 on threading part of screw.)
3	Head Azimuth Adjustment R	L. R ch peaks	ATT-114	–	–	OUT	TP-DOLBY (L. R)	Head Azimuth Adjustment Screw	(Tape A-side)	Right side screw (If left and right channel peak positions are different, set the screw at the center of both peaks. Then lock the screw, applying lock-tite 45 on threading part of screw.)
4	Wow & Flutter Measurement	Less than 0.28%	ATT-111	–	–	OUT	TP-DOLBY (L. R)	–	–	JIS-UNWTD (LINEAR)
5	Tape Speed Measurement	3000 ± 30 Hz	ATT-111	–	–	OUT	TP-DOLBY (L. R)	(Semi-fixed resistor provided on the motor.)		Adjust for 3000 ± 15 kHz when out of limit.
6	Playback Sensitivity Adjustment F	580 ± 10mV	ATT-150	–	–	OUT	TP-DOLBY (L. R)	R637 (L) R638 (R)	–	
7	Playback Sensitivity Confirmation R	580 ± 10mV	ATT-150	–	–	OUT	TP-DOLBY (L. R)	–	–	
8	Playback Frequency Characteristics Measurement (Normal)	$0\ ^{+3}_{-4}$ dB	ATT-255C	–	–	OUT	TP-DOLBY (L. R)	–	–	10 kHz level difference for 315 Hz.
9	Playback Frequency Characteristics Measurement (Chrome)	−4 ± 2 dB	ATT-255C	–	–	OUT	TP-DOLBY (L. R)	–	–	Change referred to 10 kHz normal tape. (Chrome is short-circuit Q844 base with GND.)
10	Oscillation Frequency Adjustment	85 ± 0.5 kHz	AC-711	–	OFF	OUT	TRAP (L)	Z801		OSC frequency should be lowered by approx. 2.3 kHz with SYN · REC SWITCH turned on.
11	Line Input Adjustment	580 ± 10mV	AC-512	Adjust	–	OUT	TP-DOLBY (L. R)	REC · VR	333 Hz −17 dB	Feed signal to AUX of SA-V10. Do not change the signal level after completion of REC · VR. (Adjust L ch's VR, – channel difference between L ch & R ch should be within 2 dB.)
12	Level Indicator Confirmation	Red indicator should be lit up to one segment.	AC-512	Adjust	–	OUT	Indicator	–	333 Hz – 17 dB	
13	Rec/Play Frequency Characteristic Adjustment	0 ± 1 dB	AC-512	Adjust	–	OUT	TP-DOLBY (L. R)	R653 (L) R654 (R)	333 Hz −10 kHz −40 dB	10 kHz level difference for 333 Hz.
14	Rec/Play Sensitivity Adjustment	Monitor Output	AC-512	Adjust	–	OUT	TP-DOLBY (L. R)	R681 (L) R682 (R)	333 Hz −20 dB	
15	S/N Measurement	More than 50 dB	AC-512	Adjust	–	OUT	TP-DOLBY (L. R)	–	333 Hz −16 dB	Weighted-A curve (Signal level adjustment should be mode with A-curve.)
16	Distortion Factor Measurement	Less than 2.0%	AC-512	Adjust	–	OUT	TP-DOLBY (L. R)	–	333 Hz −20 dB	Third harmonics measurement
17	Quick Reverse Adjustment	Reference Value DC 900mV	AC-512	–	–	OUT	TP QUICK REV	R859	–	Voltage with leader part travelled in FWD mode, actuated at magnetic or leader part of the tape after the tape travelled for 2 seconds with pins 7 & 8 short-circuited.

Note: Connect 4 with 12 of 13P jack when operating with deck only.

SA-V10 TA, TC MODEL

6. ELECTRICAL PARTS LOCATIONS

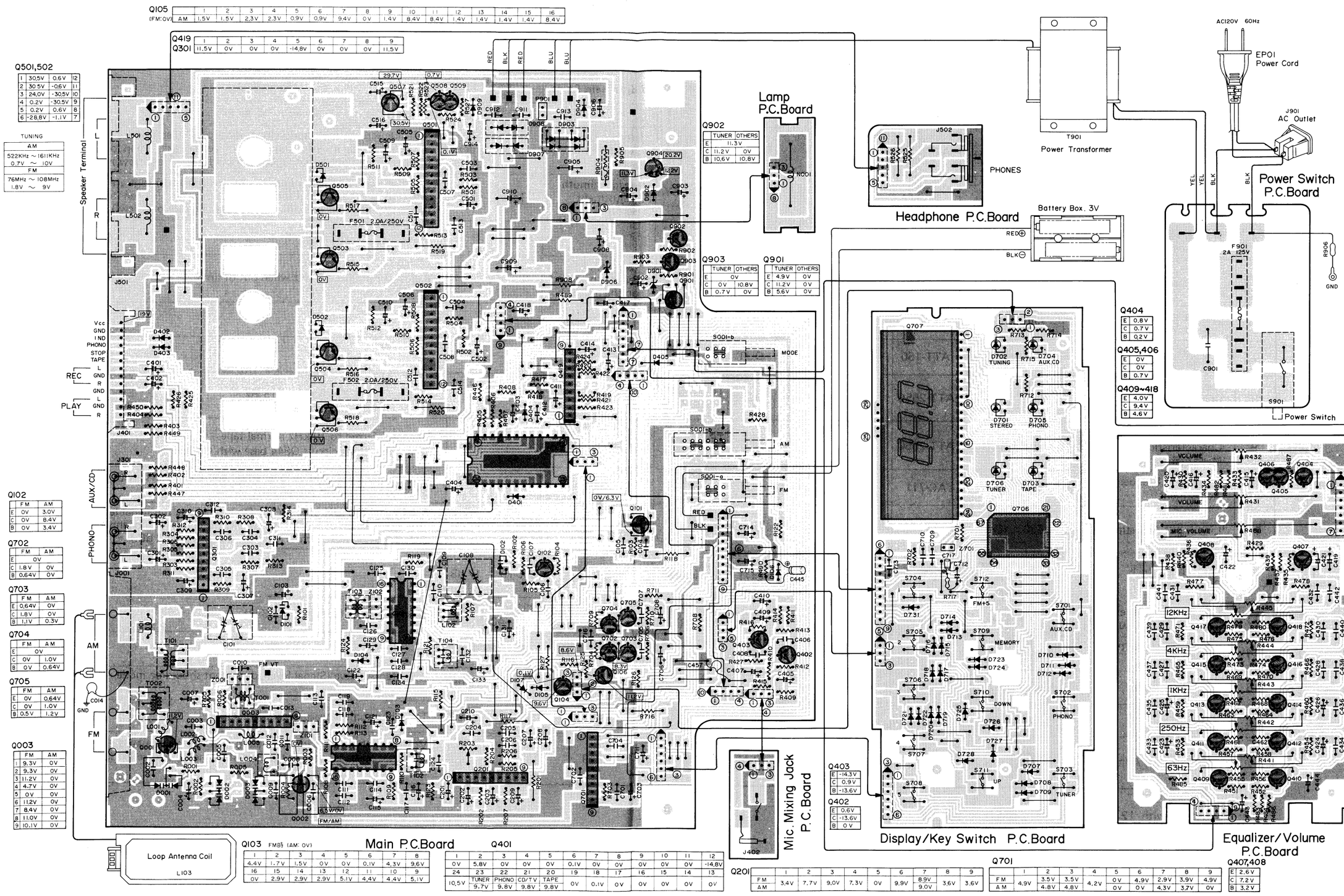
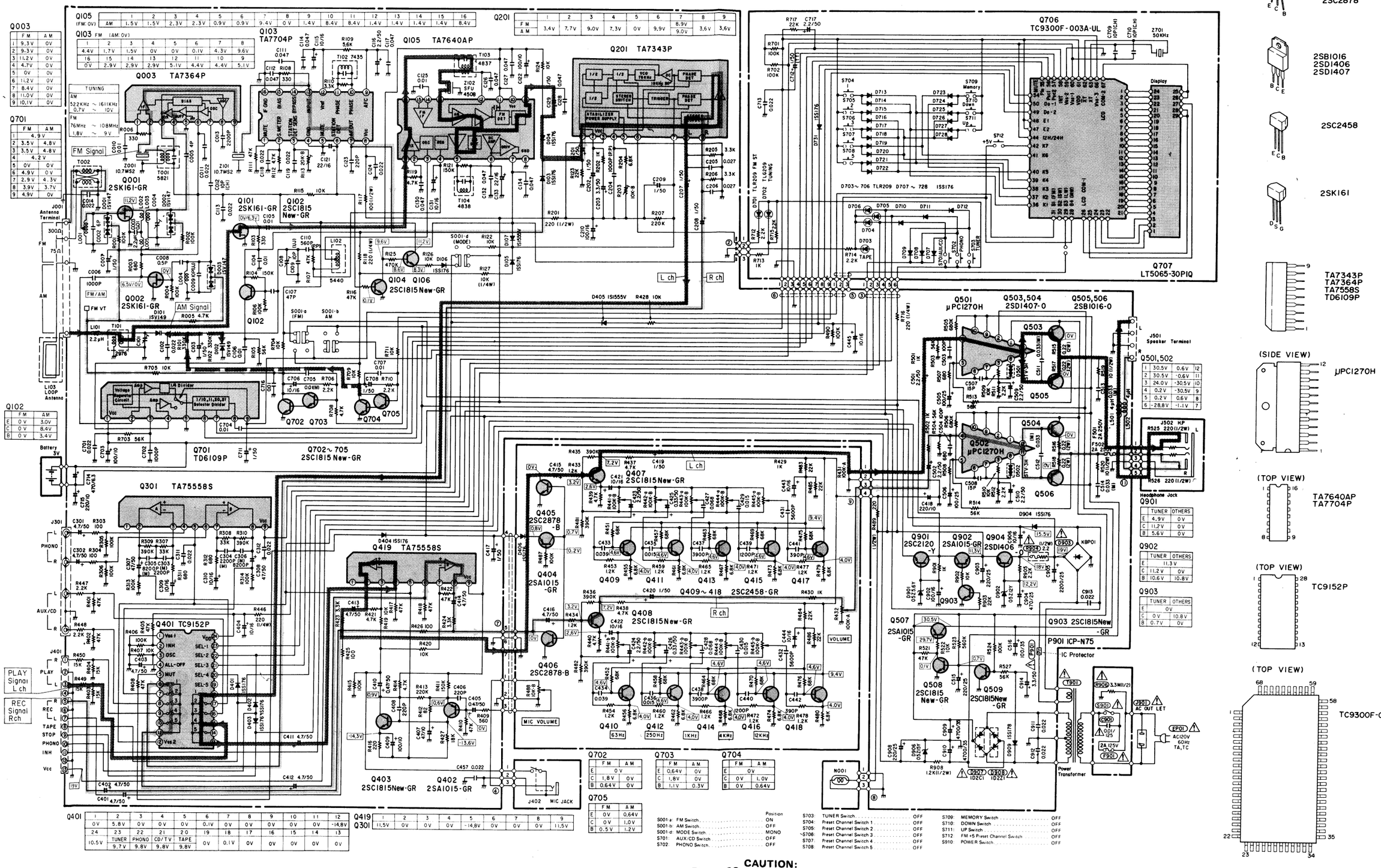


Figure 32

SA-V10 TA, TC MODEL

7. SCHEMATIC DIAGRAM



Q003	FM	AM
1	9.3 V	0V
2	9.3 V	0V
3	11.2 V	0V
4	4.7V	0V
5	0V	0V
6	11.2 V	0V
7	8.4V	0V
8	11.0V	0V
9	10.1V	0V

Q701	FM	AM
1	4.9 V	
2	3.5 V	4.8V
3	3.5 V	4.8V
4	4.2 V	
5	0V	0V
6	4.9V	0V
7	2.9 V	4.3V
8	3.9V	3.7V
9	4.9V	0V

Q105 (FM: 0V)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
AM	1.5V	1.5V	2.3V	2.3V	0.9V	0.9V	9.4V	0V	1.4V	8.4V	8.4V	1.4V	1.4V	1.4V	1.4V	8.4V

Q103 FM (AM: 0V)	1	2	3	4	5	6	7	8
	4.4V	1.7V	1.5V	0V	0V	0.1V	4.3V	9.6V
	16	15	14	13	12	11	10	9
	0V	2.9V	2.9V	2.9V	5.1V	4.4V	4.4V	5.1V

Q201	1	2	3	4	5	6	7	8	9
FM	3.4V	7.7V	9.0V	7.3V	0V	9.9V	8.9V / 9.0V	3.6V	3.6V
AM									

TUNING	
AM 522KHz ~ 1611KHz	0.7V ~ 10V
FM 76MHz ~ 108MHz	1.8V ~ 9V

Q102	FM	AM
E	0 V	3.0V
C	0 V	8.4V
B	0 V	3.4V

Q401	1	2	3	4	5	6	7	8	9	10	11	12
	0V	5.8V	0V	0V	0V	0.1V	0V	0V	0V	0V	0V	-14,8V
	24	23	22	21	20	19	18	17	16	15	14	13
	10.5V	TUNER	PHONO	CD/TV	TAPE	0V	0.1V	0V	0V	0V	0V	0V
		9.7V	9.8V	9.8V	9.8V							

Q419 Q301	1	2	3	4	5	6	7	8	9
	11,5V	0V	0V	0V	-14,8V	0V	0V	0V	11,5V

Q702	FM	AM
E	0 V	
C	1,8 V	0V
B	0,64V	0V

Q703	FM	AM
E	0,64V	0V
C	1,8V	0V
B	1,1V	0,3V

Q704	FM	AM
E	0V	
C	0V	1,0V
B	0V	0,64V

Q705	FM	AM
E	0V	0,64V
C	0V	1,0V
B	0,5 V	1,2V

Q501,502			
1	30.5V	0.6V	12
2	30.5V	-0.6V	11
3	24.0V	-30.5V	10
4	0.2V	-30.5V	9
5	0.2V	0.6V	8
6	-28.8V	-1.1V	7

Q901	TUNER	OTHERS
E	4.9V	0V
C	11.2V	0V
B	5.6V	0V

Q902	TUNER	OTHERS
E	11.3V	
C	11.2V	0V
B	10.6V	10.8V

Q903	TUNER	OTHERS
E	0V	
C	0V	10.8V
B	0.7V	0V

Position	
S001-a: FM Switch	ON
S001-b: AM Switch	OFF
S001-d: MODE Switch	MONO
S701: AUX/CD Switch	OFF
S702: PHONO Switch	OFF
S703: TUNER Switch	OFF
S704: Preset Channel Switch 1	OFF
S705: Preset Channel Switch 2	OFF
S706: Preset Channel Switch 3	OFF
S707: Preset Channel Switch 4	OFF
S708: Preset Channel Switch 5	OFF
S709: MEMORY Switch	OFF
S710: DOWN Switch	OFF
S711: UP Switch	OFF
S712: FM +5 Preset Channel Switch	OFF
S910: POWER Switch	OFF

2SA1015
2SC1815
2SC2120
2SC2878

2SB1016
2SD1406
2SD1407

2SC2458

2SK161

TA7343P
TA7364P
TA7558S
TD6109P

(SIDE VIEW) µPC1270H

(TOP VIEW) TA7640AP TA7704P

(TOP VIEW) TC9152P

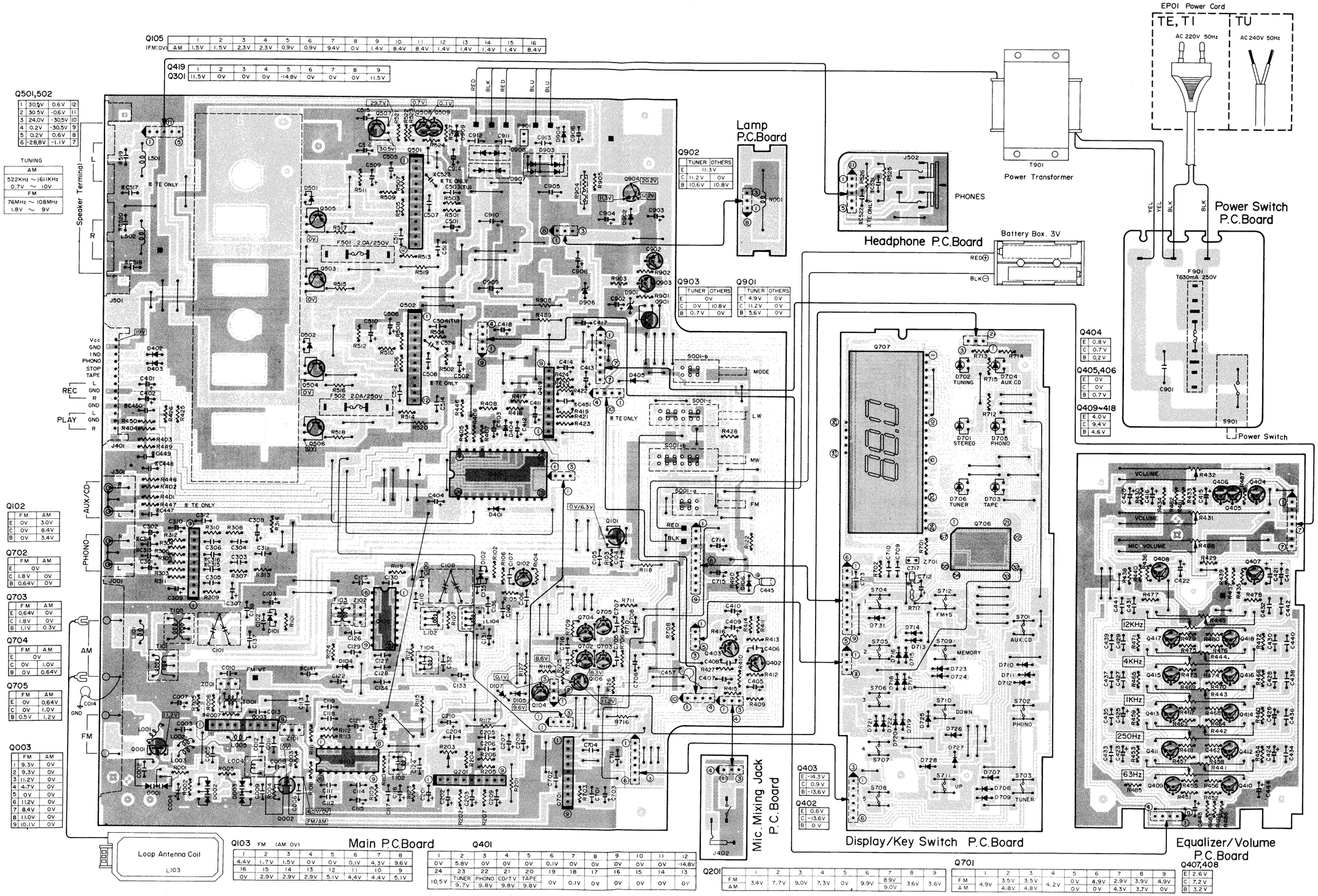
(TOP VIEW) TC9300F-003

Figure 33

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

SA-V10 TE, TU MODEL

8. ELECTRICAL PARTS LOCATIONS



Q105 (FM:0V)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
AM	1.5V	1.5V	2.3V	2.3V	0.9V	0.9V	9.4V	0V	1.4V	8.4V	8.4V	1.4V	1.4V	1.4V	1.4V	8.4V

Q419 / Q301

1	2	3	4	5	6	7	8	9
11.5V	0V	0V	0V	-14.8V	0V	0V	0V	11.5V

Q501,502

1	30.5V	0.6V	12
2	30.5V	-0.6V	11
3	24.0V	-30.5V	10
4	0.2V	-30.5V	9
5	0.2V	0.6V	8
6	-28.8V	-1.1V	7

Q902

	TUNER	OTHERS
E	11.3V	
C	11.2V	0V
B	10.6V	10.8V

Q903

	TUNER	OTHERS
E	0V	
C	0V	10.8V
B	0.7V	0V

Q901

	TUNER	OTHERS
E	4.9V	0V
C	11.2V	0V
B	5.6V	0V

Q404

E	0.8V
C	0.7V
B	0.2V

Q405,406

E	0V
C	0V
B	0.7V

Q409~418

E	4.0V
C	9.4V
B	4.6V

Q102

	FM	AM
E	0V	3.0V
C	0V	8.4V
B	0V	3.4V

Q702

	FM	AM
E	0V	
C	1.8V	0V
B	0.64V	0V

Q703

	FM	AM
E	0.64V	0V
C	1.8V	0V
B	1.1V	0.3V

Q704

	FM	AM
E	0V	
C	0V	1.0V
B	0V	0.64V

Q705

	FM	AM
E	0V	0.64V
C	0V	1.0V
B	0.5V	1.2V

Q003

	FM	AM
1	9.3V	0V
2	9.3V	0V
3	11.2V	0V
4	4.7V	0V
5	0V	0V
6	11.2V	0V
7	8.4V	0V
8	1.0V	0V
9	10.1V	0V

Q103 FM (AM: 0V)

1	2	3	4	5	6	7	8
4.4V	1.7V	1.5V	0V	0V	0.1V	4.3V	9.6V
16	15	14	13	12	11	10	9
0V	2.9V	2.9V	2.9V	5.1V	4.4V	4.4V	5.1V

Q401

1	2	3	4	5	6	7	8	9	10	11	12
0V	5.8V	0V	0V	0V	0.1V	0V	0V	0V	0V	0V	-14.8V
24	23	22	21	20	19	18	17	16	15	14	13
10.5V	TUNER 9.7V	PHONO 9.8V	CD/TV 9.8V	TAPE 9.8V	0V	0.1V	0V	0V	0V	0V	0V

Q201

	1	2	3	4	5	6	7	8	9
FM	3.4V	7.7V	9.0V	7.3V	0V	9.9V	8.9V	3.6V	3.6V
AM							9.0V		

Q701

	1	2	3	4	5	6	7	8	9
FM	4.9V	3.5V	3.5V	4.2V	0V	4.9V	2.9V	3.9V	4.9V
AM		4.8V	4.8V		0V	0V	4.3V	3.7V	0V

Q407,408

E	2.6V
C	7.2V
B	3.2V

Q402

E	0.6V
C	-13.6V
B	0V

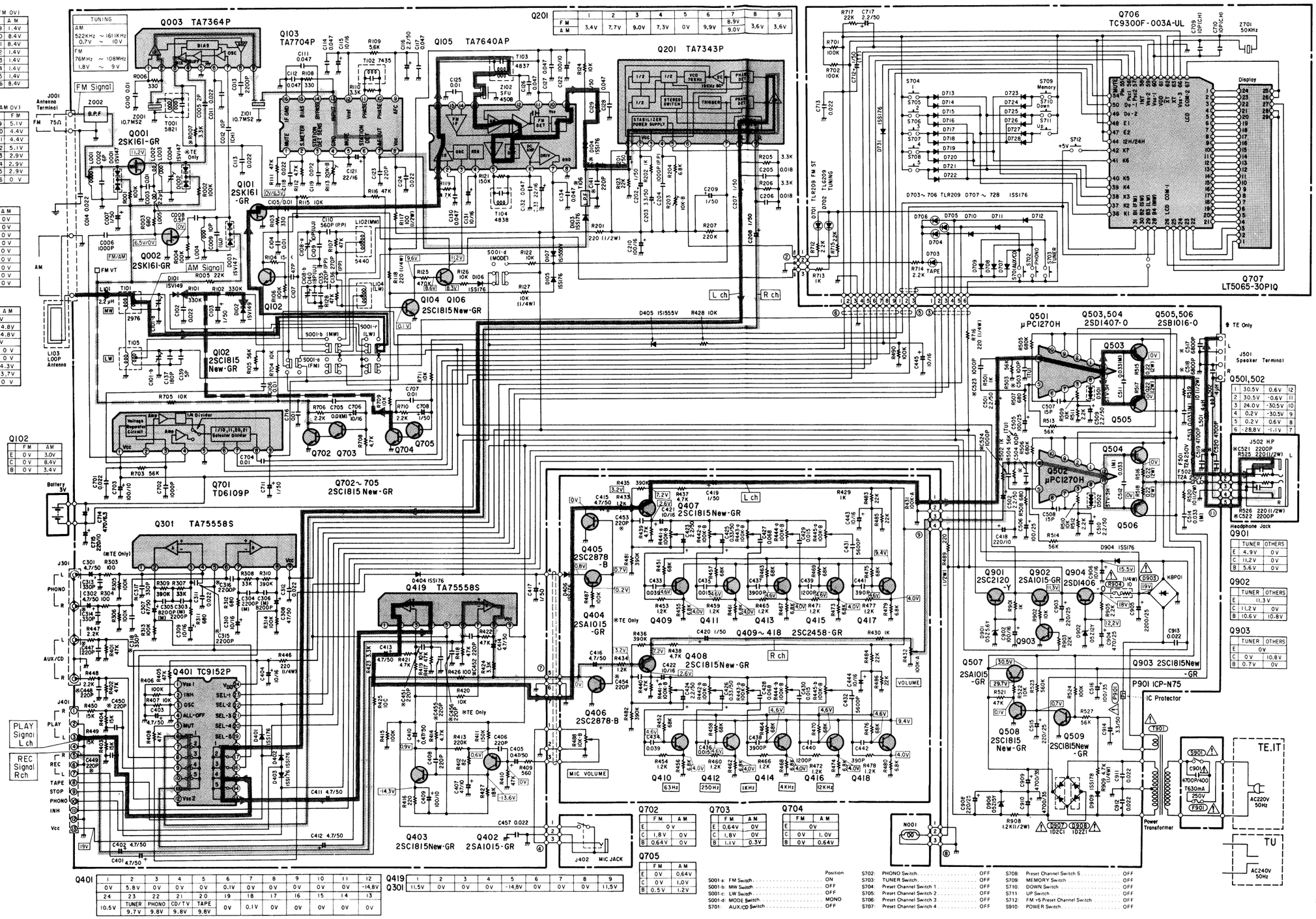
Q403

E	-14.3V
C	0.9V
B	-13.6V

Figure 34

SA-V10 TE, TU MODEL

9. SCHEMATIC DIAGRAM



Q105	FM	AM
1	1.5V	1.4V
2	1.5V	8.4V
3	2.3V	8.4V
4	2.3V	1.4V
5	0.9V	1.4V
6	0.9V	1.4V
7	9.4V	1.4V
8	0 V	8.4V

Q103 (AM OV)	FM	AM
1	4.4V	5.1V
2	1.7V	4.4V
3	1.5V	4.4V
4	0 V	5.1V
5	0 V	2.9V
6	0.1V	2.9V
7	4.3V	2.9V
8	9.6V	0 V

Q003	FM	AM
1	9.3V	0V
2	9.3V	0V
3	11.2V	0V
4	4.7V	0V
5	0 V	0V
6	11.2V	0V
7	8.4V	0V
8	11.0V	0V
9	10.1V	0V

Q701	FM	AM
1	4.9V	
2	3.5V	4.8V
3	3.5V	4.8V
4	4.2V	
5	0 V	0 V
6	4.9V	0 V
7	2.9V	4.3V
8	3.9V	3.7V
9	4.9V	0 V

Q201	1	2	3	4	5	6	7	8	9
FM	3.4V	7.7V	9.0V	7.3V	0V	9.9V	8.9V	3.6V	3.6V
AM							9.0V		

Q102	FM	AM
E	0 V	3.0V
C	0 V	8.4V
B	0 V	3.4V

Q401	1	2	3	4	5	6	7	8	9	10	11	12
	0V	5.8V	0V	0V	0V	0.1V	0V	0V	0V	0V	0V	-14.8V
	24	23	22	21	20	19	18	17	16	15	14	13
	10.5V	TUNER 9.7V	PHONO 9.8V	CD/TV 9.8V	TAPE 9.8V	0V	0.1V	0V	0V	0V	0V	0V

Q419 Q301	1	2	3	4	5	6	7	8	9
	11.5V	0V	0V	0V	-14.8V	0V	0V	0V	11.5V

Q702	FM	AM
E		0 V
C	1.8V	0V
B	0.64V	0V

Q703	FM	AM
E	0.64V	0V
C	1.8V	0V
B	1.1V	0.3V

Q704	FM	AM
E		0V
C	0V	1.0V
B	0V	0.64V

Q705	FM	AM
E	0V	0.64V
C	0V	1.0V
B	0.5V	1.2V

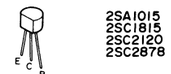
Q501,502			
1	30.5V	0.6V	12
2	30.5V	-0.6V	11
3	24.0V	-30.5V	10
4	0.2V	-30.5V	9
5	0.2V	0.6V	8
6	-28.8V	-1.1V	7

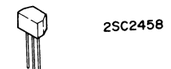
Q901	TUNER	OTHERS
E	4.9V	0V
C	11.2V	0V
B	5.6V	0V

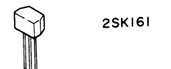
Q902	TUNER	OTHERS
E		11.3V
C	11.2V	0V
B	10.6V	10.8V

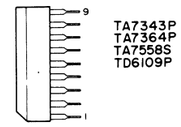
Q903	TUNER	OTHERS
E		0V
C	0V	10.8V
B	0.7V	0V

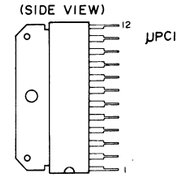
	Position		Position
S001-a: FM Switch	ON	S702: PHONO Switch	OFF
S001-b: MW Switch	OFF	S703: TUNER Switch	OFF
S001-c: LW Switch	OFF	S704: Preset Channel Switch 1	OFF
S001-d: MODE Switch	MONO	S705: Preset Channel Switch 2	OFF
S701: AUX/CD Switch	OFF	S706: Preset Channel Switch 3	OFF
		S707: Preset Channel Switch 4	OFF
		S708: Preset Channel Switch 5	OFF
		S709: MEMORY Switch	OFF
		S710: DOWN Switch	OFF
		S711: UP Switch	OFF
		S712: FM +5 Preset Channel Switch	OFF
		S910: POWER Switch	OFF

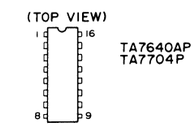


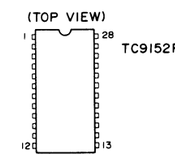












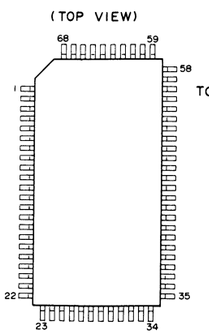


Figure 35 CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

SA-V10 VF MODEL

10. ELECTRICAL PARTS LOCATIONS

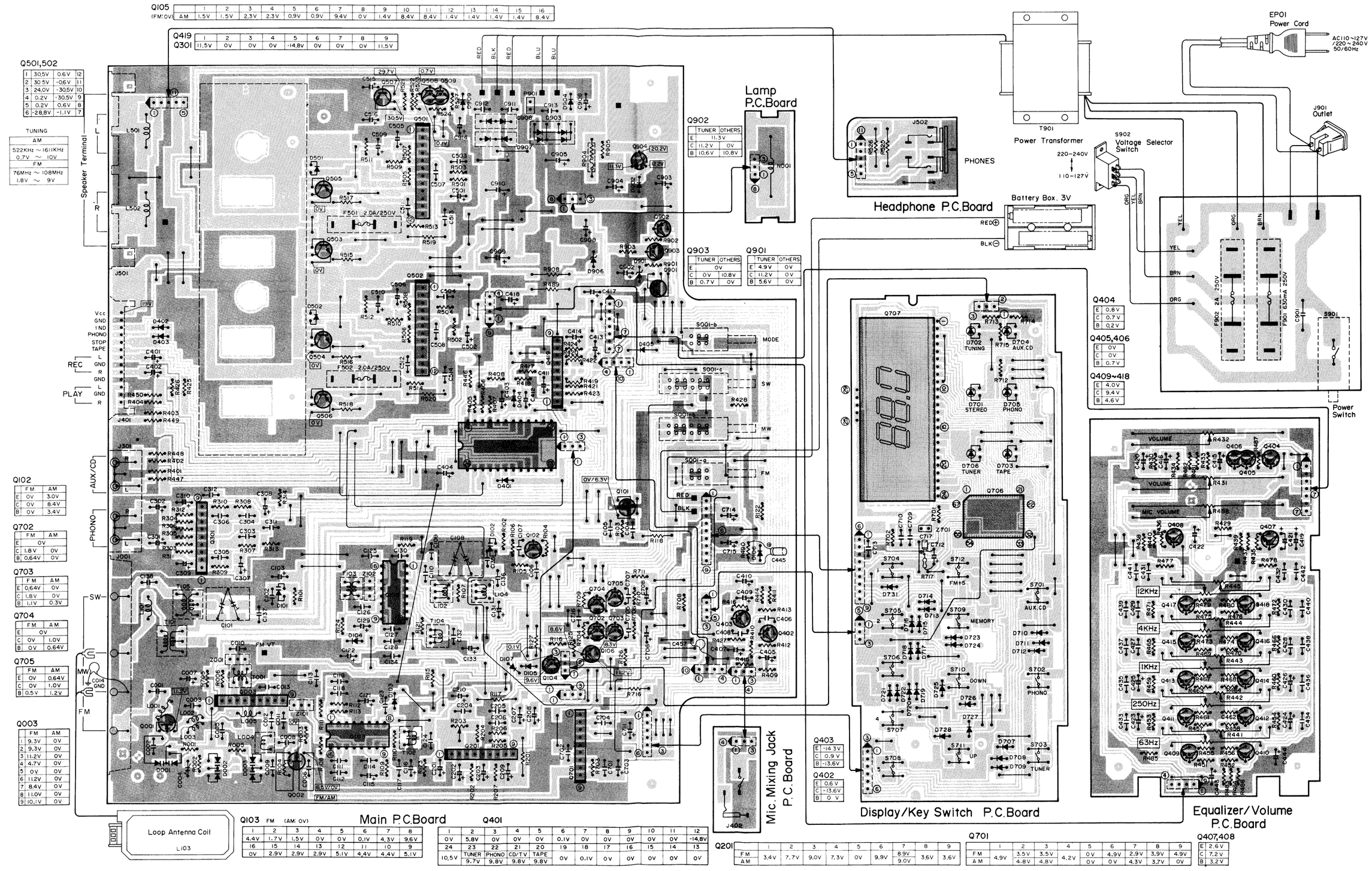
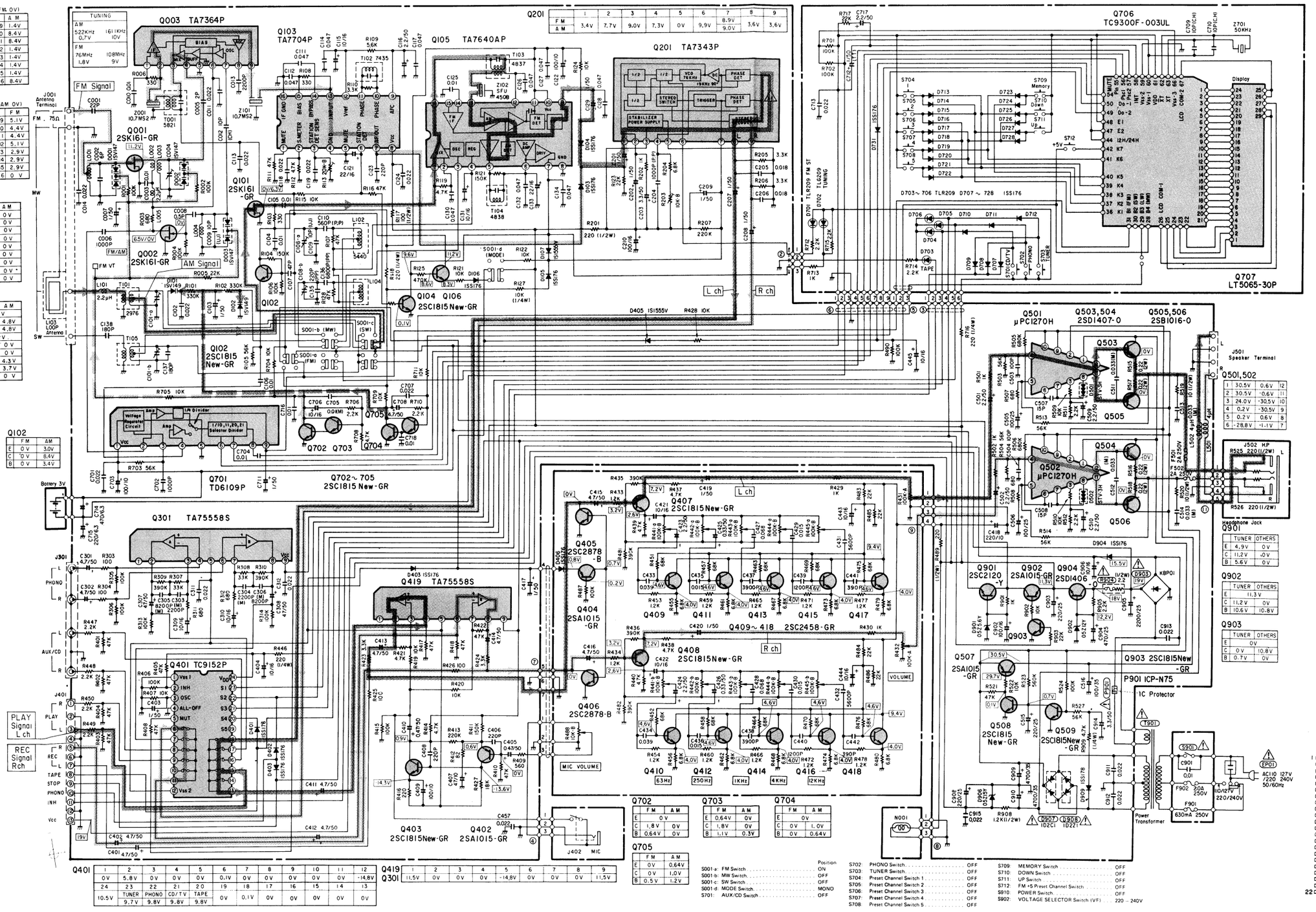


Figure 36

SA-V10 VF MODEL

11. SCHEMATIC DIAGRAM



Q105 (FM, 0V)			
	A M		A M
1	1.5V	9	1.4V
2	1.5V	10	8.4V
3	2.3V	11	8.4V
4	2.3V	12	1.4V
5	0.9V	13	1.4V
6	0.9V	14	1.4V
7	9.4V	15	1.4V
8	0 V	16	8.4V

TUNING		
AM	522KHz	1611KHz
	0.7V	10V
FM	76MHz	108MHz
	1.8V	9V

Q103 (AM 0V)			
	F M		F M
1	4.4V	9	5.1V
2	1.7V	10	4.4V
3	1.5V	11	4.4V
4	0 V	12	5.1V
5	0 V	13	2.9V
6	0.1V	14	2.9V
7	4.3V	15	2.9V
8	9.6V	16	0 V

Q003			
	F M		A M
1	9.3V	5	0V
2	9.3V	6	0V
3	11.2V	7	0V
4	4.7V	8	0V
5	0 V	9	0V
6	11.2V	10	0V
7	8.4V	11	0V
8	11.0V	12	0V
9	10.1V		0V

Q701			
	F M		A M
1		4.9V	
2	3.5V	4.8V	
3	3.5V	4.8V	
4		4.2V	
5	0 V	0 V	
6	4.9V	0 V	
7	2.9V	4.3V	
8	3.9V	3.7V	
9	4.9V	0 V	

Q201									
	1	2	3	4	5	6	7	8	9
F M	3.4V	7.7V	9.0V	7.3V	0V	9.9V	8.9V 9.0V	3.6V	3.6V
A M									

Q102		
	F M	A M
E	0 V	3.0V
C	0 V	8.4V
B	0 V	3.4V

Q401	1	2	3	4	5	6	7	8	9	10	11	12
	0V	5.8V	0V	0V	0V	0.1V	0V	0V	0V	0V	0V	-14.8V
	24	23	22	21	20	19	18	17	16	15	14	13
	10.5V	TUNER 9.7V	PHONO 9.8V	CD/TV 9.8V	TAPE 9.8V	0V	0.1V	0V	0V	0V	0V	0V

Q419 Q301	1	2	3	4	5	6	7	8	9
	11.5V	0V	0V	0V	-14.8V	0V	0V	0V	11.5V

Q702		
	F M	A M
E	0 V	
C	1.8V	0V
B	0.64V	0V

Q703		
	F M	A M
E	0.64V	0V
C	1.8V	0V
B	1.1V	0.3V

Q704		
	F M	A M
E	0V	
C	0V	1.0V
B	0V	0.64V

Q705		
	F M	A M
E	0V	0.64V
C	0V	1.0V
B	0.5V	1.2V

Position			
S001-a: FM Switch	ON	S702: PHONO Switch	OFF
S001-b: MW Switch	OFF	S703: TUNER Switch	OFF
S001-c: SW Switch	OFF	S704: Preset Channel Switch 1	OFF
S001-d: MODE Switch	MONO	S705: Preset Channel Switch 2	OFF
S701: AUX/CD Switch	OFF	S706: Preset Channel Switch 3	OFF
		S707: Preset Channel Switch 4	OFF
		S708: Preset Channel Switch 5	OFF
		S709: MEMORY Switch	OFF
		S710: DOWN Switch	OFF
		S711: UP Switch	OFF
		S712: FM +5 Preset Channel Switch	OFF
		S901: POWER Switch	OFF
		S902: VOLTAGE SELECTOR Switch (VF)	220 ~ 240V

Q501,502			
1	30.5V	0.6V	12
2	30.5V	-0.6V	11
3	24.0V	-30.5V	10
4	0.2V	-30.5V	9
5	0.2V	0.6V	8
6	-28.8V	-1.1V	7

Q901		
	TUNER	OTHERS
E	4.9V	0V
C	11.2V	0V
B	5.6V	0V

Q902		
	TUNER	OTHERS
E		11.3V
C	11.2V	0V
B	10.6V	10.8V

Q903		
	TUNER	OTHERS
E		0V
C	0V	10.8V
B	0.7V	0V

2SA1015
2SC1815
2SC2120
2SC2878

2SB1016
2SD1406
2SD1407

2SK161

2SC2458

TA7343P
TA7364P
TA7558S
TD6109P

(SIDE VIEW)
μPC1270H

(TOP VIEW)
TA7640AP
TA7704P

(TOP VIEW)
TC9152P

(TOP VIEW)
TC9300F-003

Figure 37

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

PC-V10

12. ELECTRICAL PARTS LOCATIONS

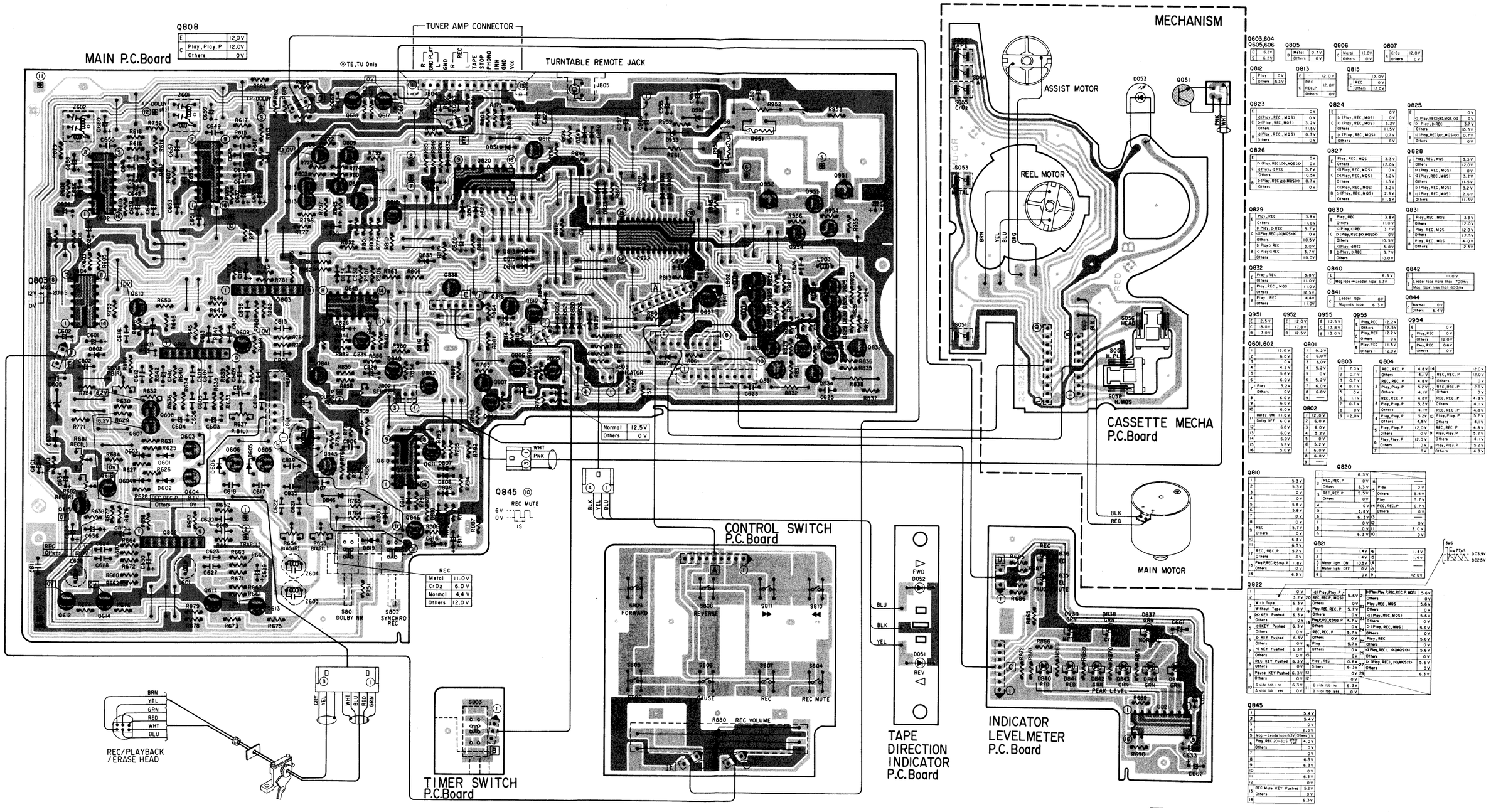


Figure 38

PC-V10

2SJ103
2SK246

2SC1173

2SC1627
2SC2236

2SA1015
2SC1815
2SC1959
2SC2120
2SC2878

13. SCHEMATIC DIAGRAM

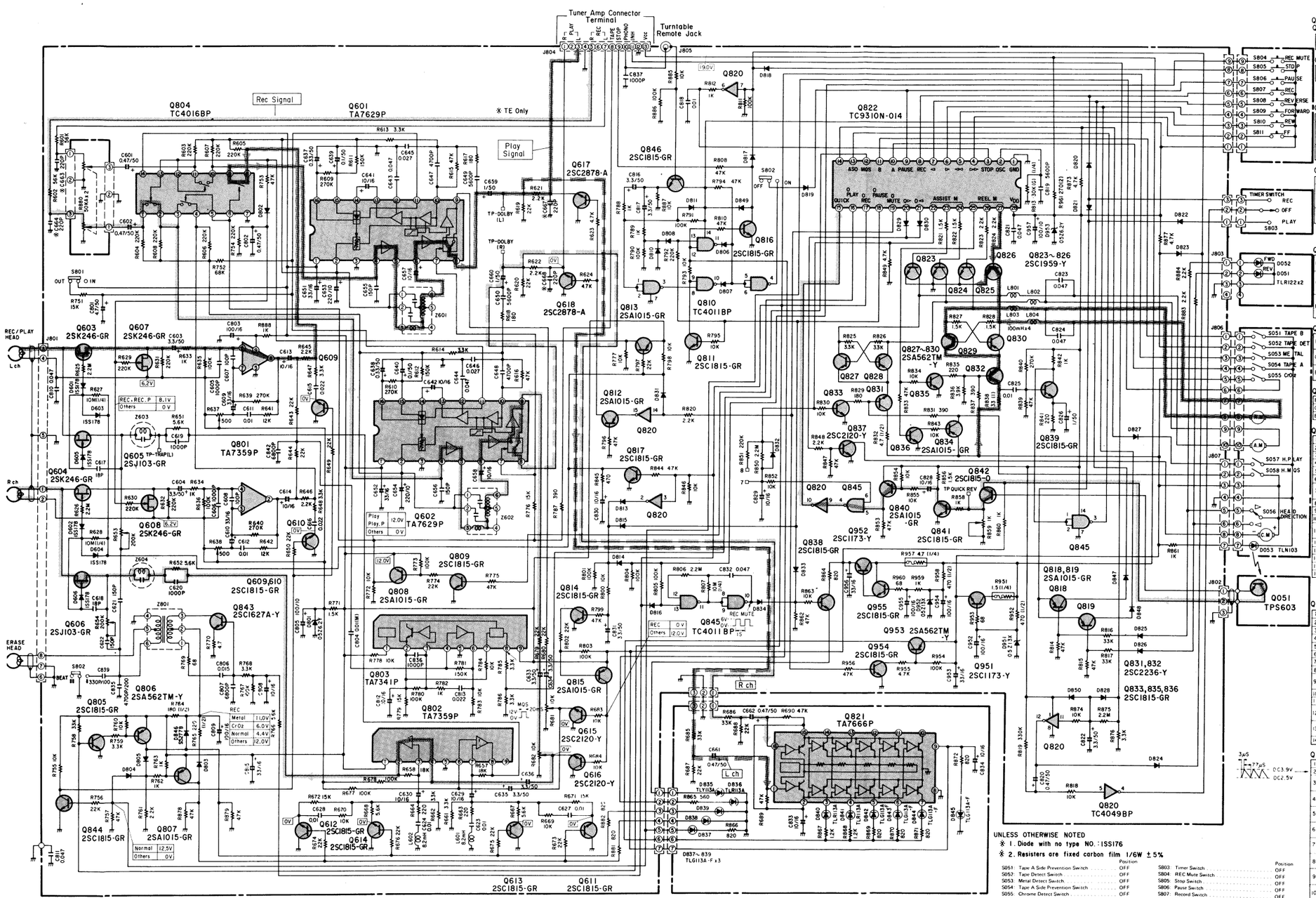
(SIDE VIEW) TA7341P TA7359P

(TOP VIEW) TC4011BP TC4016BP

(TOP VIEW) TA7666P TC4049BP

(TOP VIEW) TA7629P

(TOP VIEW) TC9310N-014



	Position
S051: Tape A Side Prevention Switch	OFF
S052: Tape Detect Switch	OFF
S053: Metal Detect Switch	OFF
S054: Tape A Side Prevention Switch	OFF
S055: Chrome Detect Switch	OFF
S056: Head Direction Switch	←
S057: Head Position Detect (Play) Switch	OFF
S058: Head Position Detect (MQS) Switch	OFF
S801: Dolby Switch	OUT
S802: Synchro Switch (Beat)	OFF (■■)
S803: Timer Switch	
S804: REC Mute Switch	OFF
S805: Stop Switch	OFF
S806: Pause Switch	OFF
S807: Record Switch	OFF
S808: Reverse Switch	OFF
S809: Forward Switch	OFF
S810: Rewind Switch	OFF
S811: FF Switch	OFF

Figure 39

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

14. MECHANISM EXPLODED VIEW (UPPER)

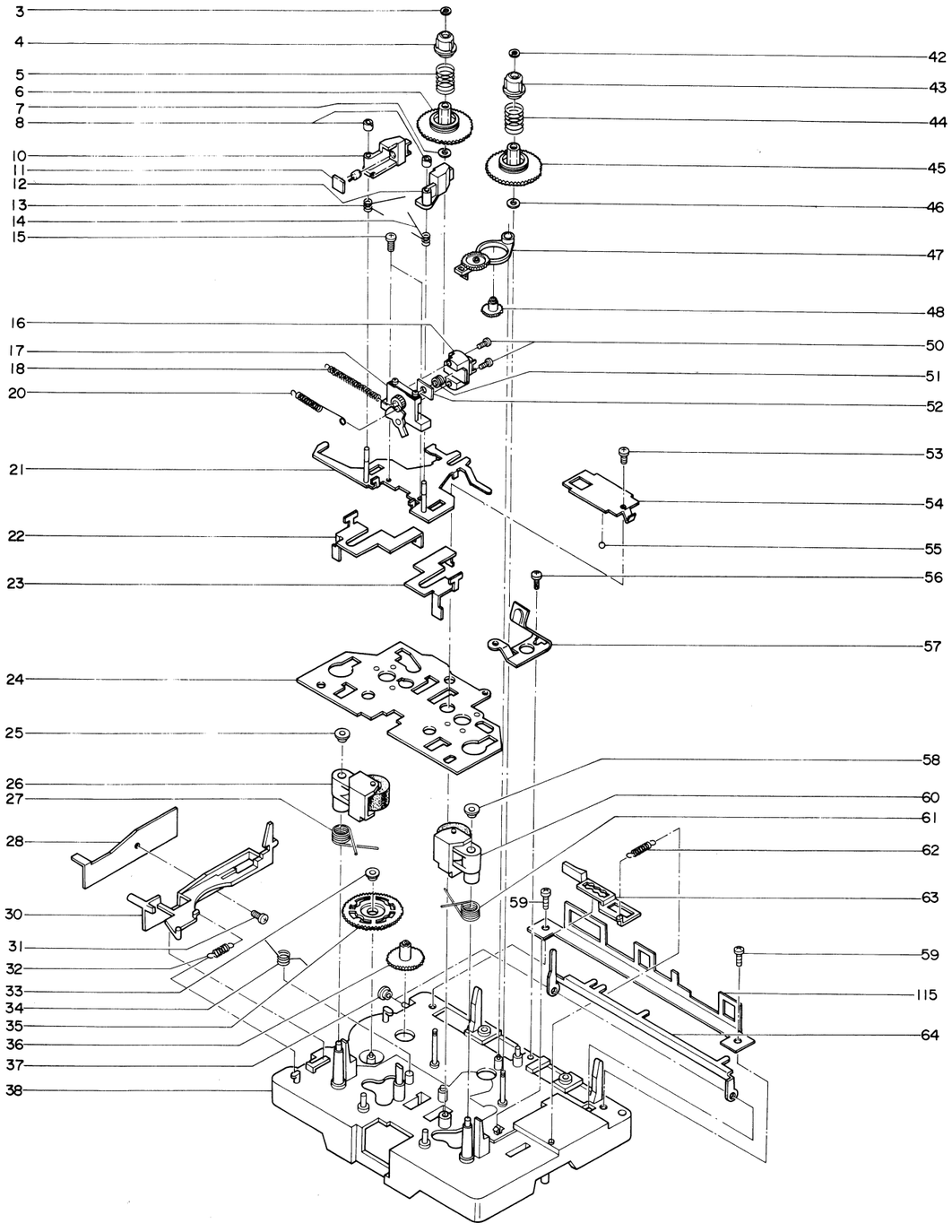


Figure 40

NOTE: Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

15. MECHANISM EXPLODED VIEW (LOWER)

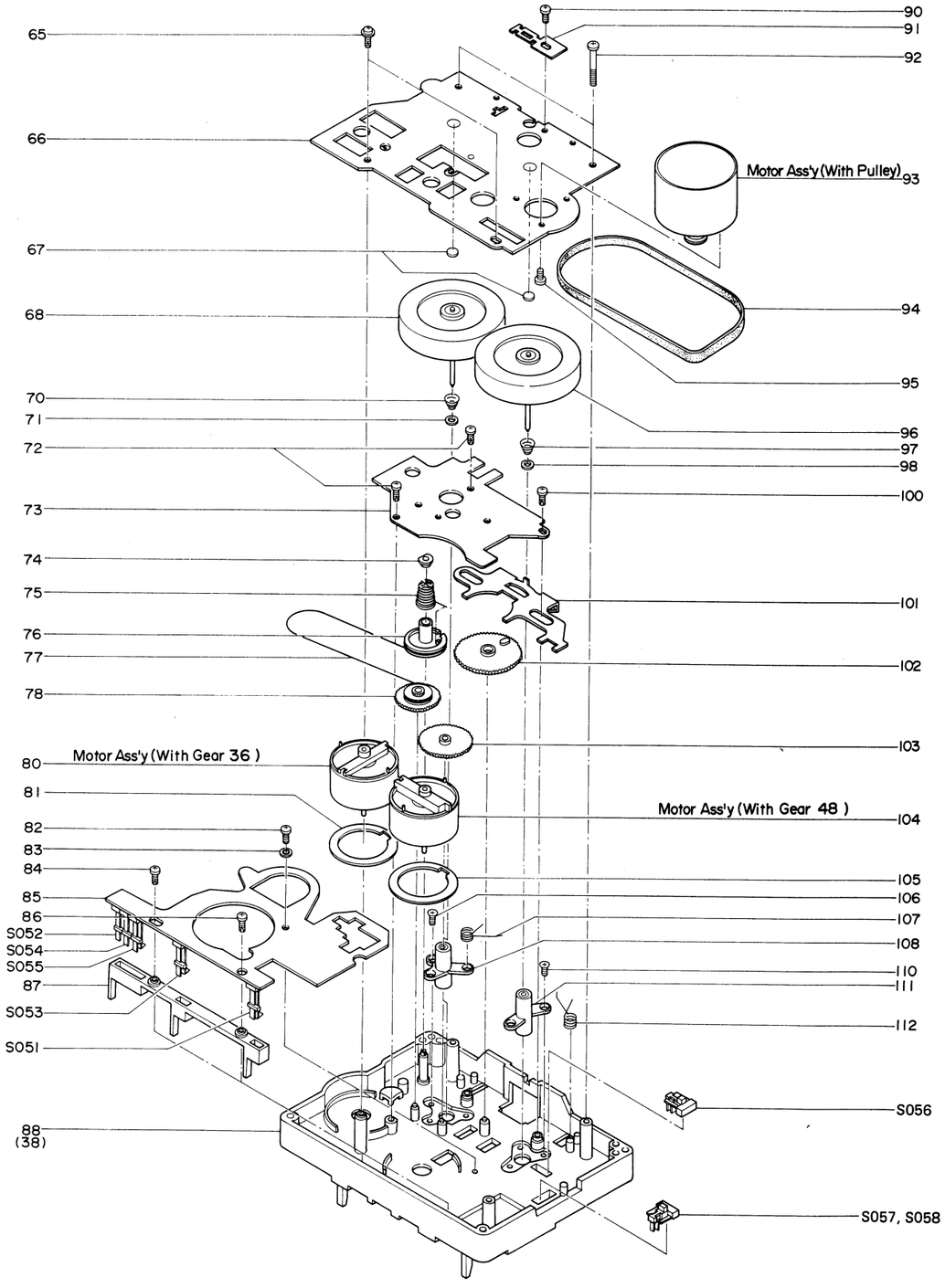


Figure 41 **NOTE:** Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

16. MECHANISM PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
1	25766050	Washer, ϕ1.6
3	25766042	Washer, ϕ2.1
4	25754436	Reel Collar
5	25777156	Spring, Reel
6	25754435	Reel Drum
7	25764597	Washer
8	25783258	Adjust Nut
10	25783298	Tape Guide, Left
11 (85)	22192285	P.C. Board, Mechanism
12	25783301	Tape Guide, Right
13	25778066	Spring, Guide
14	25778065	Spring, Guide
15	22707451	Screw, ϕ2 x 5mm, BID
16	22217422	REC·Playback/Erase Head HRPET-422
17	25717543	Head Holder Ass'y
20	25776515	Spring, Head
21	25717542	Head Slider Ass'y
22	25741960	Play Slider, Left
23	25741959	Play Slider, Right
25	25783260	Bushing, BLK
26	25717541	Pressure Roller Ass'y, Left
27	25778070	Spring, Pressure Roller
30	25782569	Lock Slider
32	25776513	Spring
33	25783226	Bushing
34	25778071	Spring
35	25756320	Gear C
36	25756317	Gear, Assist
37	25783226	Bushing
38	25791524	Main Chassis Ass'y
41	25766050	Washer, ϕ1.6
42	25766042	Washer, ϕ2.1
43	25754436	Reel Collar
44	25777156	Spring, Reel
45	25754435	Reel Drum
46	25764597	Washer
47	25756337	Transfer Gear Ass'y
48	25756315	Gear
50	22702173	Screw, ϕ1.4 x 6mm, PAN
51	25761450	Cushion, Head
52	25761481	Cushion Plate
53	22707298	Screw, ϕ2 x 6mm, BID
54	25779296	Spring, Cassette Holder
55	25757132	Steel Ball, ϕ1.5
56	22708040	Screw, ϕ2 x 5mm
57	25779295	Spring, Cassette Holder
58	25783260	Bushing, BLK

Symbol No.	Part No.	Description
59	22708040	Screw, ϕ2 x 5mm, BID Tapping
60	25717540	Pressure Roller Ass'y, Right
61	25778069	Spring, Pressure Roller
62	25776514	Spring, Switch Lever
63	25782565	Switch Lever
64	25748924	Lever, Switch Up
65	22707361	Screw, ϕ2.6 x 8mm, TPAN
67	25766024	Thrust Washer
68	25717538	Flywheel Ass'y
70	25777071	Spring, Flywheel
71	25764486	Washer, Flywheel
72	22707301	Screw, ϕ2.6 x 8mm, BID Tapping
74	25783260	Bushing, BLK
75	25778080	Return Spring
76	25758141	Return Pulley
77	22999222	Return Cord
78	25756319	Gear B
80	25791553	Assist Motor Ass'y
81	25857129	Cushion, Motor
82	22707473	Screw, ϕ2.6 x 6mm, BID
84	22707303	Screw, ϕ2.6 x 10mm, BID Tapping
85 (11)	22192285	P.C. Board, Mechanism
86	22707303	Screw, ϕ2.6 x 10mm, BID Tapping
87	25781257	Switch Holder
90	22707366	Screw, ϕ2.6 x 6mm, DTBID
92	22707878	Screw, ϕ2.6 x 24mm, DTBID
93	25791525	Main Motor Ass'y
94	25755555	Drive Belt
95	22701467	Screw, ϕ2.6 x 3mm, BID
96	25717538	Flywheel Ass'y
97	25777071	Spring, Flywheel
98	25764486	Washer, Flywheel
100	22707301	Screw, ϕ2.6 x 8mm, BID
101	25741958	Reverse Slider
102	25756321	Gear, Main Cam
103	25756318	Gear A
104	25791554	Reel Motor Ass'y
105	25857129	Cushion, Motor
106	22707895	Screw, ϕ2.6 x 4mm, FLT
107	25778068	Spring, Left
108	25717539	Holder Ass'y, Capstan
110	22707895	Screw, ϕ2.6 x 4mm, FLT
111	25717539	Holder Ass'y, Capstan
112	25778067	Spring, Right
113	22707350	Screw, ϕ2.6 x 5mm, DTBID

SA-V10 17. CABINET EXPLODED VIEW

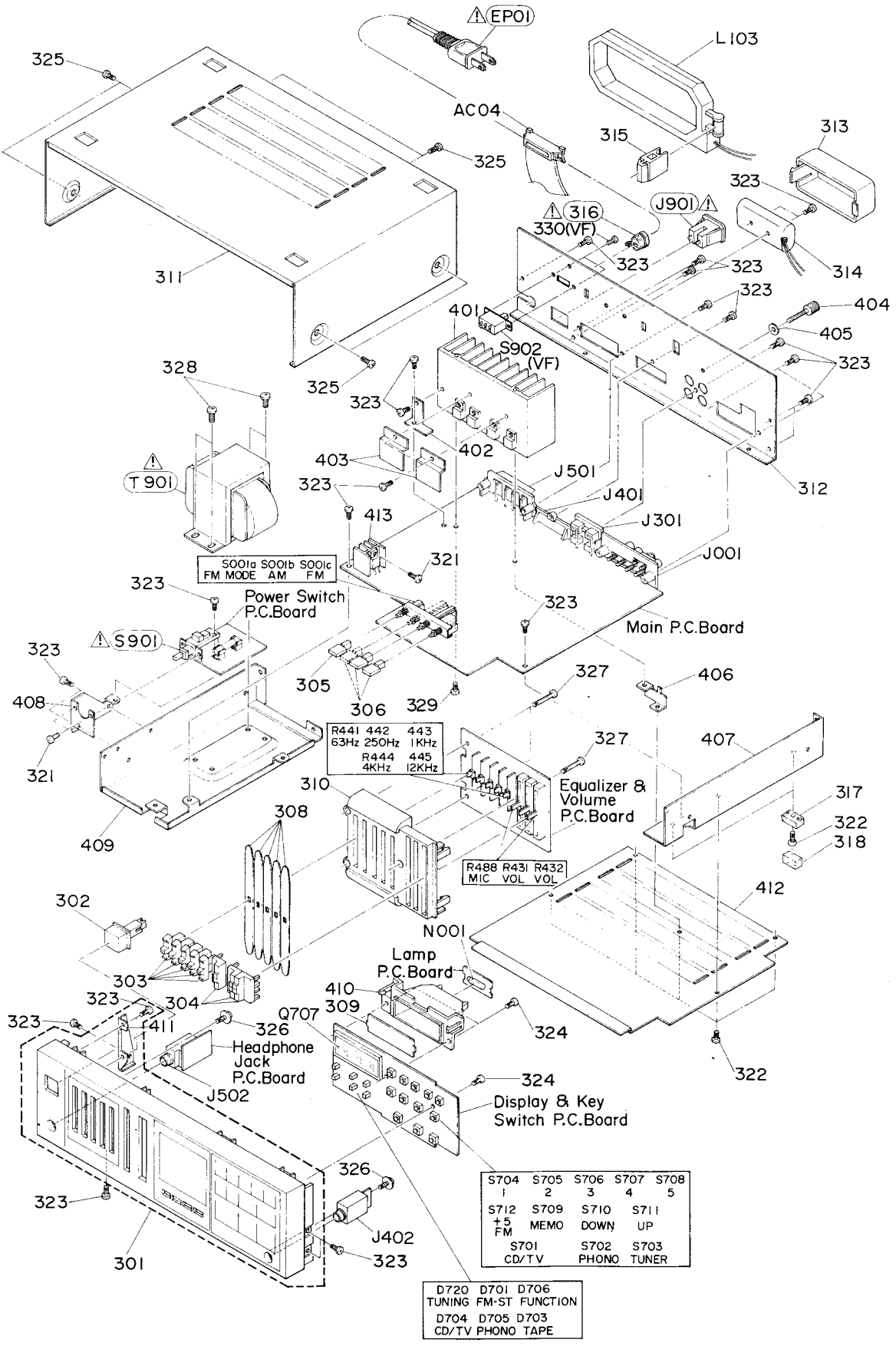


Figure 42

NOTE: Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

18. CABINET PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
301	20017241	Front Pnael Ass'y (SA-V10-K) (TE, TU, IT)
301	20017243	Front Panel Ass'y (SA-V10-S) (TE)
301	20017245	Front Panel Ass'y (SA-V10-K) (TA, TC)
301	20017246	Front Panel Ass'y (SA-V10-K) (VF)
302	22827001	Knob Ass'y, Power
303	25886176	Knob, 63 Hz/250 Hz/1 kHz/ 12 kHz (SA-V10-S) (TE)
303	25886269	Knob, 63 Hz/250 Hz/1 kHz/ 12 kHz (SA-V10-K)
304	25886177	Knob, Volume (SA-V10-S) (TE)
304	25886329	Knob, Volume (SA-V10-K)
305	25886230	Knob, BLU, FM Mode
306	25886220	Knob, GRY, AM/FM
308	25831369	Slider Sheet, EQ
309	25832910	LCD Mask Sheet
310	20033217	Decoration Plate, Slide Volume
311	20015393	Top Cover (SA-V10-S) (TE)
311	20015403	Top Cover (SA-V10-K)
312	20015416	Jack Plate (TE)
312	20015417	Jack Plate (TU)
312	20015429	Jack Plate (IT)
312	20015418	Jack Plate (TA)
312	20015419	Jack Plate (TC)
312	20015423	Jack Plate (VF)
313	22882119	Battery Cover Ass'y
314	22882112	Battery Box (with Terminal)
315	22757120	Antenna Holder
⚠ 316	25845528	Cord Bush
317	22874078	Foot
318	22758393	Cushion, Foot
321	22707445	Screw, ϕ3 x 6mm, BID
322	22707910	Screw, ϕ3 x 6mm, BID Tapping
323	22707842	Screw, ϕ3 x 8mm, BID Tapping
324	22707826	Screw, ϕ3 x 10mm, BID Tapping
325	22707886	Screw, ϕ3 x 10mm, BID Tapping Chrome (SA-V10-S)
325	22707885	Screw, ϕ3 x 8mm, BID Tapping BLK (SA-V10-K)
326	22708048	Screw, ϕ3 x 10mm, Tapping
327	22707865	Screw, ϕ3 x 20mm, BID Tapping
328	22707185	Screw, ϕ4 x 8mm, FTBID
329	22707327	Screw, ϕ3 x 8mm, BID Tapping Chrome
330	22707522	Screw, ϕ3 x 6mm, FLDT (VF)

PC-V10 19. CABINET EXPLODED VIEW

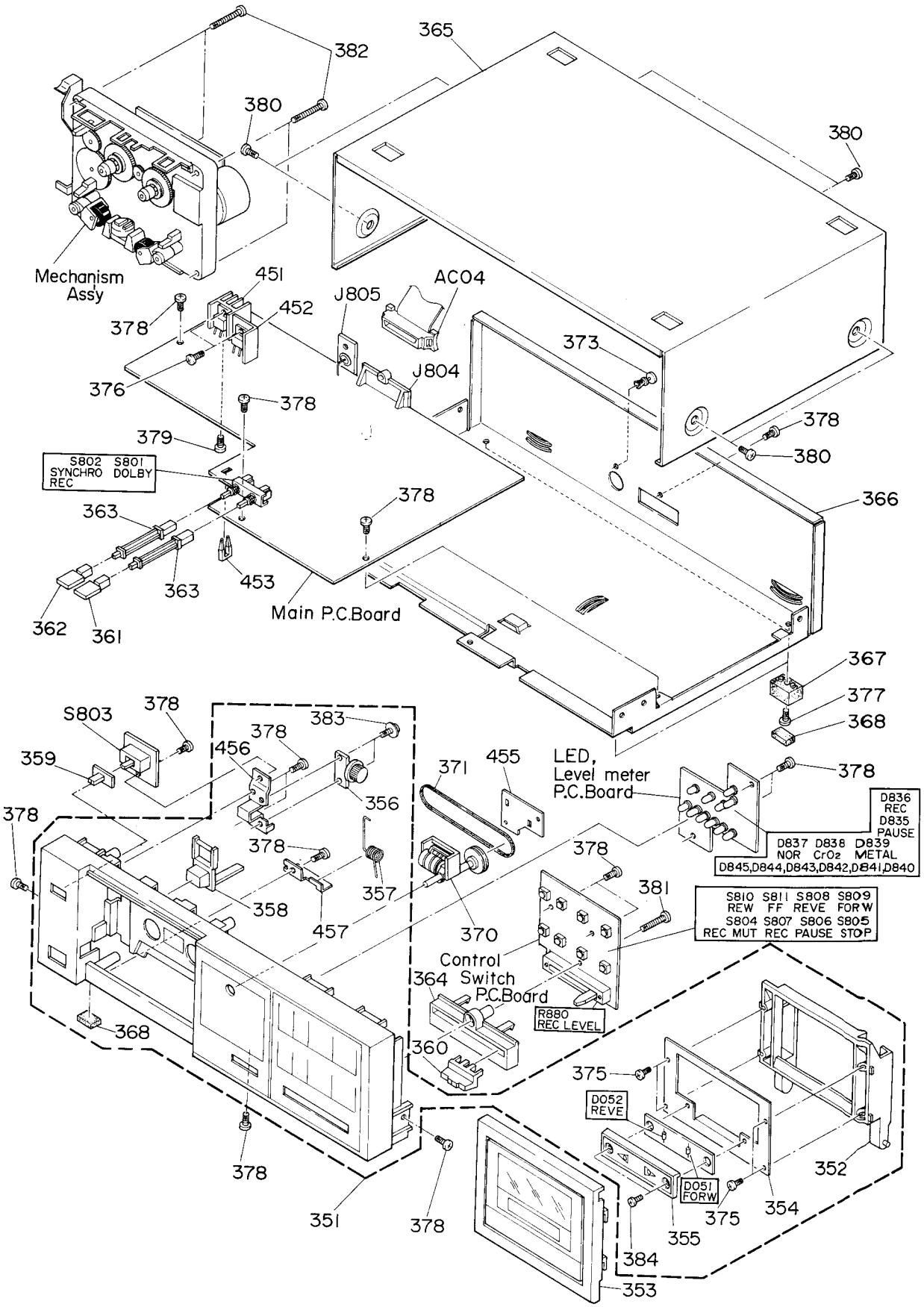


Figure 43 **NOTE:** Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

20. CABINET PARTS LIST

Symbol No.	Part No.	Description
351	20017244	Front Panel Ass'y (PC-V10-S) (TE)
351	20017247	Front Panel Ass'y (PC-V10-K) (TE, TU)
351	20017242	Front Panel Ass'y (PC-V10-K) (TA, TC)
352	25872006	Cassette Holder Ass'y
353	25883290	Cassette Cover Ass'y (PC-V10-S) (TE)
353	25883418	Cassette Cover Ass'y (PC-V10-K)
354	20024083	Cassette Holder Stay
355	25883296	LED Grill Ass'y (PC-V10-S) (TE)
355	25883622	LED Grill Ass'y (PC-V10-K)
356	25883246	Damper
357	25775243	Spring, Eject
358	25886200	Knob, Eject
359	25837708	Knob, Timer (PC-V10-S) (TE)
359	25837736	Knob, Timer (PC-V10-K)
360	25886177	Knob, REC Level (PC-V10-S) (TE)
360	25886329	Knob, REC Level (PC-V10-K)
361	25886220	Knob, Dolby
362	25886229	Knob, Synchro REC, RED
363	25830281	Knob Shaft
364	25844277	Decoration Plate, Slide Volume
365	20015394	Top Cover (PC-V10-S) (TE)
365	20015402	Top Cover (PC-V10-K)
366	25864400	Jack Plate (TE, TU)
366	25864399	Jack Pate (TA, TC, VF)
367	22828085	Foot
368	22758393	Cushion, Foot
370	25873290	Tape Counter
371	25755551	Belt, Counter
373	22705022	Plastic River, ϕ3 x 5.5mm
375	22707298	Screw, ϕ2 x 6mm, BID Tapping
376	22707445	Screw, ϕ3 x 6mm, BID
377	22707910	Screw, ϕ3 x 6mm, BID Tapping
378	22707842	Screw, ϕ3 x 8mm, BID Tapping
379	22707327	Screw, ϕ3 x 8mm, BID Tapping, Chrome
380	22707885	Screw, ϕ3 x 8mm, BID Tapping BLK (PC-V10-K)
380	22707886	Screw, ϕ3 x 10mm, BID Tapping (PC-V10-S) (TE)
381	22707835	Screw, ϕ3 x 16mm, BID Tapping
382	22707806	Screw, ϕ3 x 25mm, BID Tapping RED
383	22707798	Screw, ϕ3 x 10mm, Tapping
384	22707316	Screw, ϕ2 x 6mm, BID

21. PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
SA-V10 SECTION		
TRANSISTORS, ICS & DIODES		
Q001, 002	A6042640	Transistor, 2SK161-GR
Q003	B0325560	IC, TA7364P
Q101	A6042640	Transistor, 2SK161-GR
Q102	A6317460	Transistor, 2SC1815NEW-GR
Q103	B0357280	IC, TA7704P
Q104	A6317460	Transistor, 2SC1815NEW-GR
Q105	B0356385	IC, TA7640AP
Q106	A6317460	Transistor, 2SC1815NEW-GR
Q201	B0325350	IC, TA7343P
Q301	B0350510	IC, TA75558S
Q401	B0411520	IC, TC9152P
Q402	A6534060	Transistor, 2SA1015-GR
Q403	A6317460	Transistor, 2SC1815NEW-GR
Q404	A6534060	Transistor, 2SA1015-GR
Q405, 406	A6342210	Transistor, 2SC2878-B
Q407, 408	A6317460	Transistor, 2SC1815NEW-GR
Q409, 410, 411, 412, 413, 414, 415, 416, 417, 418	A6332440	Transistor, 2SC2458-GR
Q419	B0350510	IC, TA75558S
Q501, 502	22117423	IC, μPC1270H
Q503, 504	A6868070	Transistor, 2SD1407-O
Q505, 506	A6639370	Transistor, 2SB1016-O
Q507	A6534060	Transistor, 2SA1015-GR
Q508, 509	A6317460	Transistor, 2SC1815NEW-GR
Q701	B0271870	IC, TD6109P
Q702, 703, 704, 705	A6317460	Transistor, 2SC1815NEW-GR
Q706	B0412906	IC, TC9300F-003A-UL
Q707	22104619	LCD (Display) LT5065-30PIQ
Q901	A6321240	Transistor, 2SC2120-Y
Q902	A6534060	Transistor, 2SA1015-GR
Q903	A6317460	Transistor, 2SC1815NEW-GR
Q904	A6868010	Transistor, 2SD1406-O
D001, 002, 003	A7288890	Diode, 1SV147, Variable Cap. or KV1310

Symbol No.	Part No.	Description
D101, 102	A7288905	Diode, 1SV149A, Variable Cap. or 1SV100
D103, 104, 105, 106	A7160570	Diode, 1SS176
D107	A7246703	Diode, 1S1555V
D401, 402, 403, 404	A7160570	Diode, 1SS176
D405	A7246703	Diode, 1S1555V
D406	A7160570	Diode, 1SS176
D501, 502	22115481	Diode, STV-3H
D701	A8603150	Diode, TLR209, LED
D702	A8606680	Diode, TLG209, LED
D703, 704, 705, 706	A8603150	Diode, TLR209, LED
D707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 731	A7160570	Diode, 1SS176
D901	A7110017	Diode, 05Z5.6-Y
D902	A7110411	Diode, 05Z12-Y
⚠ D903	22115737	Diode, KBP01
D904	A7160570	Diode, 1SS176
D906	A7110509	Diode, 05Z15-Y
⚠ D907	A7682021	Diode, 1D2C1 (T)
⚠ D908	A7682061	Diode, 1D2Z1 (T)
D909	A7160610	Diode, 1SS178
COILS & TRANSFORMERS		
L001	22295171	Coil, FM Antenna
L002	22295170	Coil, FM RF
L003	22295169	Coil, FM RF
L004	22295188	Coil, FM OSC
L005	22291082	Choke Coil, 2.2μH

Symbol No.	Part No.	Description
L101	22291082	Choke Coil, 2.2μH
L102	22205440	Coil, AM OSC
L103	22242955	AM Loop Antenna
L104	22205075	Coil, LW OSC (TE, TU, IT)
L104	22285359	Coil, SW OSC (VF)
L501, 502	22210152	Choke Coil, 4μH
T001	22265821	IF Transformer, FM
T002	22290013	Coil, Balun (TA, TC)
T101	22242976	Coil, AM Antenna
T102	22267435	IF Transformer, FM
T103	22264837	IF Transformer, AM
T104	22264838	IF Transformer, FM
T105	22243019	Coil, LW Antenna (TE, TU, IT)
T105	22282259	Coil, SW Antenna (VF)
T106	22153193	Low-pass Filter, FTZ (TE, IT)
⚠ T901	22224391	Transformer, Power (TE, IT)
⚠ T901	22224392	Transformer, Power (TU)
⚠ T901	22224390	Transformer, Power (TA)
⚠ T901	22224397	Transformer, Power (TC)
⚠ T901	22224406	Transformer, Power (VF)

ELECTRICAL PARTS

S001a-d	22196432	Push Switch, FM Mode/LW/MW/FM (TE, TU, IT) Push Switch, FM Mode/SW/MW/FM (VF)
S001a, b, d	22196450	Push Switch, FM Mode/AM/FM (TA, TC)
S701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712	22195924	Key Switch, AUX. CD/Phono Tuner/Program 1 2/3 4/5 Memory/Down Up/FM + 5
⚠ S901	22196516	Push Switch, Power (TE, TU, IT, TA, TC)
⚠ S901	22196326	Push Switch, Power (VF)
⚠ S902	22196110	Selector Switch, Voltage (VF)
J001	22162463	Antenna Terminal, 3P (TE, TU, IT, VF)
J001	22162468	Antenna Terminal, 4P (TA, TC)

Symbol No.	Part No.	Description
J301	22163909	Pin Jack, US4P
J401	22161926	Connector Socket, 13P
J402	22198112	Jack, 6D, Microphone
J501	22162535	Speaker Terminal, 4P
J502	22198036	Jack, 6D, Headphone
⚠ J901	22169073	AC Outlet, 1P (TA, TC, VF)
Z001, 101	22153320	Ceramic Filter, 10.7MS2A
Z002	22153276	FM Band-pass Filter (TE, TU, IT)
Z102	22153319	Ceramic Filter, 450B
Z701	22153318	Crystal, 50 kHz
F501, 502	22144378	Fuse, T2A, 250V (TE, TU, IT)
F501, 502	22144452	Fuse, 2A, 250V (TA, TC, VF)
⚠ F901	22144432	Fuse, T630mA, 250V (TE, TU, IT)
⚠ F901	22144364	Fuse, T2A, 125V (TA, TC)
⚠ F901	22144415	Fuse, 630mA, 250V (VF)
⚠ F902	22144404	Fuse, 2A, 250V (VF)
N001	22113574	Lamp, 12V, 110mA, GRN
⚠ P901	22116221	IC Protector, ICP-N75-2.7A
⚠ EP01	22176642	Power Cord (TE, IT)
⚠ EP01	22176641	Power Cord (TU)
⚠ EP01	22176644	Power Cord (TA, TC)
⚠ EP01	22176608	Power Cord (VF)
EP02	22165047	Fuse Holder (F901, 501, 502) (TE, TU, IT)
EP02	22165047	Fuse Holder (F501, 502) (TA, TC, VF)
EP03	22165036	Fuse Holder (F901) (TA, TC)
EP03	22165036	Fuse Holder (F901, 902) (VF)

CAPACITORS

D = ±0.5pF, J = ±5%, K = ±10%, M = ±20%, P = −0 +100%, Z = −20 +80%

ABBREVIATIONS: CD = Ceramic Disk, EL = Electrolytic, PP = Polypropylene, BL = Barrier Layer, MY = Mylar

C001	22361220	CD, 22pF, 50V, J
C002	22361609	CD, 6pF, 50V, D
C003	22342103	CD, 0.01mfd, 50V, Z
C004	22309192	Trimmer, 20pF
C005	22361209	CD, 2pF, 50V, D (TE, IT)
C005	22361409	CD, 4pF, 50V, D (TA, TC, TU, VF)

Symbol No.	Part No.	Description
C006	22349102	CD, 1000pF, 50V, K
C007	22488109	EL, 1mfd, 50V
C008	22361508	CD, 0.5pF, 50V, D
C009	22360029	CD, 10pF, 50V, D, UJ
C010	22342103	CD, 0.01mfd, 50V, Z
C011	22342223	CD, 0.022mfd, 50V, Z
C012	22360310	CD, 10pF, 50V, D, CH
C013	22349222	CD, 2200pF, 50V, K
C014	22342223	CD, 0.022mfd, 50V, Z
C101	22309184	Trimmer, 16pF x 2 (TE, TU, IT, VF)
C101	22309195	Trimmer, 15pF x 2 (TA, TC)
C102	22342223	CD, 0.022mfd, 50V, Z
C103	22488109	EL, 1mfd, 50V
C104	22342103	CD, 0.01mfd, 50V, Z
C105, 106	22342103	CD, 0.01mfd, 50V, Z
C107	22361470	CD, 47pF, 50V, J
C108	22309184	Trimmer, 16pF x 2 (TE, TU, IT, VF)
C108	22309195	Trimmer, 15pF x 2 (TA, TC)
C109	22360029	CD, 10pF, 50V, D, UJ
C110	22321223	PP, 560pF, 50V, J
C111, 112	22342473	CD, 0.047mfd, 50V, Z
C113	22342223	CD, 0.022mfd, 50V, Z
C114	22342473	CD, 0.047mfd, 50V, Z
C115	22485100	EL, 10mfd, 16V
C116	22488229	EL, 2.2mfd, 50V
C117	22342473	CD, 0.047mfd, 50V, Z
C118, 119	22342223	CD, 0.022mfd, 50V, Z
C121	22485220	EL, 22mfd, 16V
C122	22483101	EL, 100mfd, 10V
C123	22349221	CD, 220pF, 50V, K (TA, TC, TU, VF)
C124	22342223	CD, 0.022mfd, 50V, Z
C125	22342103	CD, 0.01mfd, 50V, Z
C126, 127	22342473	CD, 0.047mfd, 50V, Z
C128	22342473	CD, 0.047mfd, 50V, Z
C129	22488109	EL, 1mfd, 50V
C130	22342473	CD, 0.047mfd, 50V, Z
C131	22485100	EL, 10mfd, 16V
C132	22342473	CD, 0.047mfd, 50V, Z
C133	22485220	EL, 22mfd, 16V
C134	22342473	CD, 0.047mfd, 50V, Z
C135	22321164	PP, 220pF, 50V, J (TE, TU, IT)
C135	22360180	CD, 27pF, 50V, K, UJ (VF)
C136	22321048	PP, 270pF, 50V, J (TE, TU, IT)
C136	22321067	PP, 6800pF, 50V, J (VF)
C137	22349181	CD, 180pF, 50V, K (TE, TU, IT)
C137	22362390	CD, 39pF, 50V, K (VF)
C138	22362181	CD, 180pF, 50V, K (VF)

Symbol No.	Part No.	Description
C139	22361509	CD, 5pF, 50V, D
C140	22362180	CD, 18pF, 50V, K (TE, IT)
C141	22349221	CD, 220pF, 50V, K (TE, IT)
C201	22488109	EL, 1mfd, 50V
C202	22488109	EL, 1mfd, 50V
C203	22488339	EL, 3.3mfd, 50V
C204	22321057	PP, 1000pF, 50V, J
C205, 206	22360547	BL, 0.018mfd, 25V, K (TE, TU, IT, VF)
C205, 206	22360549	BL, 0.027mfd, 25V, K (TA, TC)
C207	22488109	EL, 1mfd, 50V
C208	22488109	EL, 1mfd, 50V
C209	22488109	EL, 1mfd, 50V
C210	22485101	EL, 100mfd, 16V
C301	22488479	EL, 4.7mfd, 50V
C302	22488479	EL, 4.7mfd, 50V
C303, 304	22371222	MY, 2200pF, 50V, J
C305, 306	22371822	MY, 8200pF, 50V, J
C307, 308	22488479	EL, 4.7mfd, 50V
C309, 310	22485100	EL, 10mfd, 16V
C311, 312	22342223	CD, 0.022mfd, 50V, Z
C313, 314	22349331	CD, 330pF, 50V, K (TE, IT)
C315, 316	22349222	CD, 2200pF, 50V, K (TE, IT)
C317, 318	22349331	CD, 330pF, 50V, K (TE, IT)
C401, 402	22488479	EL, 4.7mfd, 50V
C403	22488479	EL, 4.7mfd, 50V
C404	22485100	EL, 10mfd, 16V
C405	22488478	EL, 0.47mfd, 50V
C406	22349221	CD, 220pF, 50V, K
C407	22483470	EL, 47mfd, 10V
C408	22349221	CD, 220pF, 50V, K
C409	22483101	EL, 100mfd, 10V
C410	22488478	EL, 0.47mfd, 50V
C411, 412	22488479	EL, 4.7mfd, 50V
C413, 414	22488479	EL, 4.7mfd, 50V
C415, 416	22488479	EL, 4.7mfd, 50V
C417	22488109	EL, 1mfd, 50V
C418	22483221	EL, 220mfd, 10V
C419, 420	22488109	EL, 1mfd, 50V
C421, 422	22485100	EL, 10mfd, 16V
C423, 424	22488229	EL, 2.2mfd, 50V
C425, 426	22480006	EL, 0.33mfd, 50V
C427, 428	22360332	BL, 0.068mfd, 25V, M
C429, 430	22360328	BL, 0.015mfd, 25V, M
C431, 432	22360541	BL, 5600pF, 25V, K
C433, 434	22360551	BL, 0.039mfd, 25V, K
C435, 436	22360328	BL, 0.015mfd, 25V, M
C437, 438	22360539	BL, 3900pF, 25V, K
C439, 440	22360533	BL, 1200pF, 25V, K
C441, 442	22349391	CD, 390pF, 50V, K

Symbol No.	Part No.	Description
C443, 444	22485100	EL, 10mfd, 16V
C445	22485100	EL, 10mfd, 16V
C447, 448	22349221	CD, 220pF, 50V, K (TE, IT)
C449	22349221	CD, 220pF, 50V, K (TE, IT)
C450	22349221	CD, 220pF, 50V, K (TE, IT)
C451, 452	22349221	CD, 220pF, 50V, K (TE, IT)
C453, 454	22349221	CD, 220pF, 50V, K (TE, IT)
C455, 456	22349221	CD, 220pF, 50V, K (TE, IT)
C457	22342223	CD, 0.022mfd, 50V, Z
C501, 502	22488229	EL, 2.2mfd, 50V
C503, 504	22349221	CD, 220pF, 50V, K (TE, IT)
C503, 504	22362101	CD, 100pF, 50V, K (TU, TA, TC)
C505, 506	22486101	EL, 100mfd, 25V
C507, 508	22361150	CD, 15pF, 50V, J
C509, 510	22488229	EL, 2.2mfd, 50V
C511, 512	22371333	MY, 0.033mfd, 50V, J
C513, 514	22371333	MY, 0.033mfd, 50V, J
C515	22483221	EL, 220mfd, 10V
C516	22487101	EL, 100mfd, 35V
C517, 518	22349682	CD, 6800pF, 50V, K (TE, IT)
C519, 520	22349472	CD, 4700pF, 50V, K (TE, IT)
C521, 522	22349222	CD, 2200pF, 50V, K (TE, IT)
C523, 524	22349102	CD, 1000pF, 50V, K (TE, IT)
C701	22342223	CD, 0.022mfd, 50V, Z
C702	22349102	CD, 1000pF, 50V, K
C703	22483101	EL, 100mfd, 10V
C704	22342103	CD, 0.01mfd, 50V, Z
C705	22371103	MY, 0.01mfd, 50V, J
C706	22485100	EL, 10mfd, 16V
C707	22360327	BL, 0.01mfd, 25V, M
C707	22360329	BL, 0.022mfd, 25V, M (VF)
C708	22488109	EL, 1mfd, 50V
C708	22488479	EL, 4.7mfd, 50V, (VF)
C709, 710	22360310	CD, 10pF, 50V, D, CH
C711, 712	22488109	EL, 1mfd, 50V
C713	22342223	CD, 0.022mfd, 50V, Z
C714	22482471	EL, 470mfd, 6.3V
C715	22483221	EL, 220mfd, 10V
C716	22342103	CD, 0.01mfd, 50V, Z
C717	22488229	EL, 2.2mfd, 50V
C718	22342103	CD, 0.01mfd, 50V, Z (VF)
C901	22340150	CD, 4700pF, 500V, M (TE, IT)
C901	22340205	CD, 4700pF, 400V, M (TU)
C901	22340140	CD, 0.01mfd, 125V, P (TA, TC)
C901	22340169	CD, 0.01mfd, 250V, P (VF)
C902	22485101	EL, 100mfd, 16V
C903	22486221	EL, 220mfd, 25V
C904	22486471	EL, 470mfd, 25V

Symbol No.	Part No.	Description
C905	22486222	EL, 2200mfd, 25V
C906	22485100	EL, 10mfd, 16V
C908	22486221	EL, 220mfd, 25V
C909, 910	22440629	EL, 4700mfd, 35V
C911, 912	22342223	CD, 0.022mfd, 50V, Z
C913	22342223	CD, 0.022mfd, 50V, Z
C914	22488339	EL, 3.3mfd, 50V
C915	22342223	CD, 0.022mfd, 50V, Z (VF)

RESISTORS

All resistors are carbon film, 1/6W, ±5% unless otherwise noted. 1K ohm = 1000 ohm, 1M ohm = 1000000 ohm

R001	22584104	100K ohm
R002	22584104	100K ohm
R003	22584681	680 ohm
R004	22584104	100K ohm
R005	22584223	22K ohm
R006	22584331	330 ohm
R007	22584332	3.3K ohm (TE, IT)
R101	22584334	330K ohm
R102	22584334	330K ohm
R103	22584331	330 ohm
R104	22584154	150K ohm
R105	22584563	56K ohm
R106	22584104	100K ohm
R107	22584473	47K ohm
R108	22584331	330 ohm
R109	22584562	5.6K ohm
R110	22584332	3.3K ohm
R111	22584473	47K ohm
R112	22584472	4.7K ohm
R113	22658483	20K ohm, B Semi-fixed Variable
R115	22584103	10K ohm
R116	22584473	47K ohm
R117	22547101	100 ohm, 1/2W
R118	22545221	220 ohm, 1/4W
R119	22584472	4.7K ohm
R121	22584154	150K ohm
R122	22584103	10K ohm
R123	22584223	22K ohm
R124	22584103	10K ohm
R125	22584474	470K ohm
R126	22584103	10K ohm
R127	22545103	10K ohm, 1/4W
R128	22584473	47K ohm
R201	22547221	220 ohm, 1/2W
R202	22584102	1K ohm
R203	22658798	10K ohm, B, Semi-fixed Variable
R204	22584682	6.8K ohm
R205, 206	22584332	3.3K ohm
R207	22584224	220K ohm

Symbol No.	Part No.	Description
R303, 304	22584102	1K ohm (TE, IT)
R303, 304	22584101	100 ohm (TU, TA, TC, VF)
R305, 306	22584104	100K ohm
R307, 308	22584333	33K ohm
R309, 310	22584394	390K ohm
R311, 312	22584681	680 ohm
R313, 314	22584104	100K ohm
R401, 402	22584473	47K ohm
R403, 404	22584153	15K ohm
R405	22584473	47K ohm
R406	22584104	100K ohm
R407	22584103	10K ohm
R408	22584473	47K ohm
R409	22584561	560 ohm
R410	22584473	47K ohm
R411	22584154	150K ohm
R412	22584820	82 ohm
R413	22584224	220K ohm
R414	22584472	4.7K ohm
R415	22584104	100K ohm
R416	22584221	220 ohm
R417, 418	22584473	47K ohm
R419, 420	22584103	10K ohm
R421, 422	22584472	4.7K ohm
R423, 424	22584332	3.3K ohm
R425, 426	22584101	100 ohm
R427	22584183	18K ohm
R428	22584103	10K ohm
R429	22584102	1K ohm
R430	22584102	1K ohm
R431, 432	22657312	100K ohm, A, Variable,Slide Volume
R433, 434	22584122	1.2K ohm
R435, 436	22584394	390K ohm
R437, 438	22584472	4.7K ohm
R439, 440	22584472	4.7K ohm
R441a, 441b	22657318	100K ohm, W, Variable Volume, 63 Hz
R442a, 442b	22657318	100K ohm W, Variable Volume, 250 Hz
R443a, 443b	22657318	100K ohm, W, Variable Volume, 1 kHz
R444a, 444b	22657318	100K ohm, W, Variable Volume, 4 kHz
R445a, 445b	22657318	100K ohm, W, Variable Volume 12 kHz
R446	22555221	220 ohm, 1/4W
R447, 448	22584222	2.2K ohm
R449, 450	22584153	15K ohm
R451, 452	22584683	68K ohm
R453, 454	22584122	1.2K ohm
R455, 456	22584682	6.8K ohm

Symbol No.	Part No.	Description
R457, 458	22584683	68K ohm
R459, 460	22584122	1.2K ohm
R461, 462	22584682	6.8K ohm
R463, 464	22584683	68K ohm
R465, 466	22584122	1.2K ohm
R467, 468	22584682	6.8K ohm
R469, 470	22584683	68K ohm
R471, 472	22584122	1.2K ohm
R473, 474	22584682	6.8K ohm
R475, 476	22584683	68K ohm
R477, 478	22584122	1.2K ohm
R479, 480	22584682	6.8K ohm
R481, 482	22584394	390K ohm
R483, 484	22584223	22K ohm
R485, 486	22584223	22K ohm
R487	22584104	100K ohm
R488	22657319	10K ohm, B, Variable Slide Volume Microphone
R489	22547221	220 ohm, 1/2W
R490	22584104	100K ohm
R501, 502	22584102	1K ohm
R503, 504	22584563	56K ohm
R505, 506	22584684	680K ohm
R507, 508	22584681	680 ohm
R509, 510	22584103	10K ohm
R511, 512	22584222	2.2K ohm
R513, 514	22584563	56K ohm
R515, 516	22500341	0.22 ohm, 2W, Wire Wound
R517, 518	22500341	0.22 ohm, 2W, Wire Wound
R519, 520	22547100	10 ohm, 1/2W
R521	22584473	47K ohm
R522	22584103	10K ohm
R523	22584564	560K ohm
R524	22584104	100K ohm
R525, 526	22547221	220 ohm, 1/2W
R527	22584563	56K ohm
R701	22584104	100K ohm
R702	22584104	100K ohm
R703	22584823	82K ohm
R704	22584103	10K ohm
R705	22584103	10K ohm
R706	22584222	2.2K ohm
R708	22584472	4.7K ohm
R709	22584103	10K ohm
R710	22584222	2.2K ohm
R711	22584103	10K ohm
R712	22584222	2.2K ohm
R713	22584102	1K ohm
R714	22584222	2.2K ohm
R715	22584222	2.2K ohm
R716	22545221	220 ohm, 1/4W
R717	22584223	22K ohm

Symbol No.	Part No.	Description
R901	22584102	1K ohm
R902	22584103	10K ohm
R903	22584223	22K ohm
⚠ R904	22500130	10 ohm, 1/4W, Fusible (TE, TU, IT)
⚠ R904	22500202	2.2 ohm, 1/2W, Fusible (TA, TC, VF)
R905	22584222	2.2K ohm
⚠ R906	22540594	3.3M ohm (TA, TC)
R908	22547122	1.2K ohm, 1/2W
R909	22545472	47K ohm, 1/4W, (TE, TU, IT, VF)

Symbol No.	Part No.	Description
PC-V10 SECTION		
TRANSISTORS, ICS & DIODES		
Q601, 602	B0356150	IC, TA7629P
Q603, 604	A6044630	Transistor, 2SK246-GR-Y/GR
Q605, 606	A6040910	Transistor, 2SJ103-GR-Y/GR
Q607, 608	A6044630	Transistor, 2SK246-GR-Y/GR
Q609, 610, 611, 612, 613, 614	A6317460	Transistor, 2SC1815NEW-GR
Q615, 616	A6321240	Transistor, 2SC2120-Y
Q617, 618	A6342200	Transistor, 2SC2878-A
Q801, 802	B0325510	IC, TA7359P
Q803	B0325320	IC, TA7341P
Q804	B0470162	IC, TC4016BP
Q805	A6317460	Transistor, 2SC1815NEW-GR
Q806	A6509140	Transistor, 2SA562TM-Y
Q807, 808	A6534060	Transistor, 2SA1015-GR
Q809	A6317460	Transistor, 2SC1815NEW-GR
Q810	B0470116	IC, TC4011BP
Q811	A6317460	Transistor, 2SC1815NEW-GR
Q812, 813	A6534060	Transistor, 2SA1015-GR
Q814	A6317460	Transistor, 2SC1815NEW-GR
Q815	A6534060	Transistor, 2SA1015-GR
Q816, 817	A6317460	Transistor, 2SC1815NEW-GR
Q818, 819	A6534060	Transistor, 2SA1015-GR
Q820	B0470494	IC, TC4049BP
Q821	B0356660	IC, TA7666P
Q822	22117176	IC, TC9310N-014
Q823, 824, 825, 826	A6319300	Transistor, 2SC1959NEW-Y
Q827, 828, 829, 830	A6509140	Transistor, 2SA562TM-Y
Q831, 832	A6325540	Transistor, 2SC2236-Y
Q833	A6317460	Transistor, 2SC1815NEW-GR
Q834	A6534060	Transistor, 2SA1015-GR
Q835, 836	A6317460	Transistor, 2SC1815NEW-GR
Q837	A6321240	Transistor, 2SC2120-Y
Q838, 839	A6317460	Transistor, 2SC1815NEW-GR
Q840	A6534060	Transistor, 2SA1015-GR
Q841	A6317460	Transistor, 2SC1815NEW-GR
Q842	A6317420	Transistor, 2SC1815NEW-O
Q843	A6314470	Transistor, 2SC1627A-Y
Q844	A6317460	Transistor, 2SC1815NEW-GR
Q845	B0470116	IC, TC4011BP
Q846	A6317460	Transistor, 2SC1815NEW-GR

Symbol No.	Part No.	Description
Q951, 952	A677164A	Transistor, 2SC1173-Y. X
Q953	A6509140	Transistor, 2SA562TM-Y
Q954, 955	A6317460	Transistor, 2SC1815NEW-GR
D051, 052	A8601050	Diode, TLR122, LED RED
D053	A8610100	Diode, TLN103, LED
D601, 602, 603, 604, 605, 606	A7160610	Diode, 1SS178
D801	A7110076	Diode, 05Z6.2-Y, Zener
D802, 803, 804, 805, 806, 807, 808	A7160570	Diode, 1SS176
D810, 811, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834	A7160570	Diode, 1SS176
D835	A8607951	Diode, TLY113A, LED YEL
D836	A8600607	Diode, TLR113A, LED RED
D837, 838, 839	A8605677	Diode, TLG113A-F-E LED GRN
D840, 841	A8600607	Diode, TLR113A, LED RED
D842, 843, 844, 845	A8605677	Diode, TLG113A-F-E/F, LED GRN
D846	A7978380	Diode, S5277B
D847, 848, 849, 850	A7160570	Diode, 1SS176
D951, 952	A7110461	Diode, 05Z13-X-X/Y, Zener
D953	A7110076	Diode, 05Z6.2-Y-X/Y, Zener

Symbol No.	Part No.	Description
ELECTRICAL PARTS		
L601, 602	22232278	Choke Coil, 8.2mH
L801, 802, 803, 804	22211302	Choke Coil, 100μH
S051, 052, 053, 054, 055	22196120	Leaf Switch, B Prevention/ Tape Metal/A Prevention Chrome
S056	22196121	Slide Switch, Head Direction
S057, 058	22196121	Slide Switch, Play/MQS Position
S801, 802	22196434	Push Switch, Dolby/Synchro/ Beat Cut
S803	22195566	Slide Switch, Timer
S804, 805, 806, 807, 808, 809, 810, 811	22195924	Key Switch, REC Mute/Stop Pause/REC Reverse/ Forward Rewind/FF
J804	22161926	Connector Socket, 13P
J805	22163956	Pin Jack, US1P
Z601, 602	22153278	Dolby Filter
Z603, 604	22153229	Bias Trap Coil, 85 kHz
Z801	22215114	Bias OSC Coil
CAPACITORS		
J = ±5%, K = ±10%, Z = −20 +80%		
ABBREVIATIONS: EL = Electrolytic, CD = Ceramic Disk, MY = Mylar, PS = Polystyrene, PP = Polypropylene		
C601, 602	22488478	EL, 0.47mfd, 50V
C603, 604	22488339	EL, 3.3mfd, 50V
C605, 606	22349102	CD, 1000pF, 50V, K
C607, 608	22362101	CD, 100pF, 50V, K
C609, 610	22485330	EL, 33mfd, 16V
C611, 612	22371103	MY, 0.01mfd, 50V, J
C613, 614	22485100	EL, 10mfd, 16V
C615, 616	22371223	MY, 0.022mfd, 50V, J
C617, 618	22361180	CD, 18pF, 50V, J
C619, 620	22349102	CD, 1000pF, 50V, K
C621, 622	22349151	CD, 150pF, 50V, K
C623, 624	22371103	MY, 0.01mfd, 50V, J
C627, 628	22371103	MY, 0.01mfd, 50V, J
C629, 630	22485100	EL, 10mfd, 16V

Symbol No.	Part No.	Description
C633, 634	22488339	EL, 3.3mfd, 50V
C635, 636	22488339	EL, 3.3mfd, 50V
C637, 638	22480006	EL, 0.33mfd, 50V
C639, 640	22488108	EL, 0.1mfd, 50V
C641, 642	22485100	EL, 10mfd, 16V
C643, 644	22371473	MY, 0.047mfd, 50V, J
C645, 646	22371273	MY, 0.027mfd, 50V, J
C647, 648	22371472	MY, 4700pF, 50V, J
C649, 650	22371562	MY, 5600pF, 50V, J
C651, 652	22485330	EL, 33mfd, 16V
C653, 654	22483221	EL, 220mfd, 10V
C655, 656	22349151	CD, 150pF, 50V, K
C657, 658	22485100	EL, 10mfd, 16V
C659, 660	22488109	EL, 1mfd, 50V
C661, 662	22488478	EL, 0.47mfd, 50V
C663, 664	22349221	CD, 220pF, 50V, K (TE, TU)
C667, 668	22349221	CD, 220pF, 50V, K (TE, TU)
C801	22488479	EL, 4.7mfd, 50V
C802	22488478	EL, 0.47mfd, 50V
C803	22485101	EL, 100mfd, 16V
C804	22371103	MY, 0.01mfd, 50V, J
C805	22483101	EL, 100mfd, 10V
C806	22371153	MY, 0.015mfd, 50V, J
C807	22371682	MY, 6800pF, 50V, J
C808	22485100	EL, 10mfd, 16V
C809	22485101	EL, 100mfd, 16V
C810	22342473	CD, 0.047mfd, 50V, Z
C811	22342473	CD, 0.047mfd, 50V, Z
C812	22485100	EL, 10mfd, 16V
C813	22371223	MY, 0.022mfd, 50V, J
C815	22485330	EL, 33mfd, 16V
C816, 817	22488339	EL, 3.3mfd, 50V
C818	22342103	CD, 0.01mfd, 50V, Z
C819	22371562	MY, 5600pF, 50V, J
C820	22488478	EL, 0.47mfd, 50V
C821	22342473	CD, 0.047mfd, 50V, Z
C822	22488339	EL, 3.3mfd, 50V
C823, 824	22342473	CD, 0.047mfd, 50V, Z
C825	22342103	CD, 0.01mfd, 50V, Z
C826	22488109	EL, 1mfd, 50V
C828, 829	22485100	EL, 10mfd, 16V
C830	22485100	EL, 10mfd, 16V
C831	22488339	EL, 3.3mfd, 50V
C832	22342473	CD, 0.047mfd, 50V, Z
C833, 834	22485100	EL, 10mfd, 16V
C835	22380102	PS, 4700pF, 200V, K
C836, 837	22349102	CD, 1000pF, 50V, K
C839	22321106	PP, 330pF, 100V, J
C842	22371682	MY, 6800pF, 50V, J
C952	22485101	EL, 100mfd, 16V
C953	22485330	EL, 33mfd, 16V
C954, 955	22485101	EL, 100mfd, 16V

Symbol No.	Part No.	Description
C956	22485330	EL, 33mfd, 16V
C957	22483101	EL, 100mfd, 10V

RESISTORS

All resistors are carbon film, 1/6W, ±5% unless otherwise noted. 1K ohm = 1000 ohm, 1M ohm = 1000000 ohm

R601, 602	22584563	56K ohm
R603, 604	22584224	220K ohm
R605, 606	22584224	220K ohm
R607, 608	22584224	220K ohm
R609, 610	22584274	270K ohm
R611, 612	22584154	150K ohm
R613, 614	22584332	3.3K ohm
R615, 616	22584473	47K ohm
R617, 618	22584181	180 ohm
R619, 620	22584223	22K ohm
R621, 622	22584222	2.2K ohm
R623, 624	22584472	4.7K ohm
R625, 626	22584225	2.2M ohm
R627, 628	22555106	10M ohm, 1/4W
R629, 630	22584224	220K ohm
R631, 632	22584224	220K ohm
R633, 634	22584102	1K ohm
R635, 636	22584104	100K ohm
R637, 638	22658793	500 ohm, B, Semi-fixed Variable
R639, 640	22584274	270K ohm
R641, 642	22584123	12K ohm
R643, 644	22584223	22K ohm
R645, 646	22584222	2.2K ohm
R647, 648	22584332	3.3K ohm
R649, 650	22584223	22K ohm
R651, 652	22584562	5.6K ohm
R653, 654	22658803	200K ohm, B, Semi-fixed Variable
R657, 658	22584183	18K ohm
R661, 662	22584332	3.3K ohm
R663, 664	22584221	220 ohm
R667, 668	22584562	5.6K ohm
R669, 670	22584103	10K ohm
R671, 672	22584153	15K ohm
R673, 674	22584223	22K ohm
R675, 676	22584223	22K ohm
R677, 678	22584104	100K ohm
R679, 680	22584223	22K ohm
R681, 682	22658798	10K ohm, B, Semi-fixed Variable
R683, 684	22584103	10K ohm
R685, 686	22584333	33K ohm

Symbol No.	Part No.	Description
R687, 688	22584223	22K ohm
R689, 690	22584473	47K ohm
R751	22584153	15K ohm
R752	22584683	68K ohm
R753	22584473	47K ohm
R754	22584224	220K ohm
R755	22584103	10K ohm
R756	22584223	22K ohm
R757	22584473	47K ohm
R758	22584333	33K ohm
R759	22584332	3.3K ohm
R760	22584103	10K ohm
R761	22584222	2.2K ohm
R762, 763	22584102	1K ohm
R764	22547181	180 ohm, 1/2W
R765	22547221	220 ohm, 1/2W
R766	22584562	5.6K ohm
R767	22584104	100K ohm
R768	22584332	3.3K ohm
R769	22584680	68 ohm
R770	22584479	4.7 ohm
R771	22584152	1.5K ohm
R772	22584103	10K ohm
R773	22584104	100K ohm
R774	22584223	22K ohm
R775	22584473	47K ohm
R776	22584153	15K ohm
R777, 778	22584103	10K ohm
R779	22584153	15K ohm
R780	22584104	100K ohm
R781	22584154	150K ohm
R782	22584102	1K ohm
R783, 784	22584103	10K ohm
R785, 786	22584332	3.3K ohm
R787	22584391	390 ohm
R788, 789	22584102	1K ohm
R790, 791	22584104	100K ohm
R792	22584224	220K ohm
R793	22584103	10K ohm
R794	22584473	47K ohm
R795	22584103	10K ohm
R796	22584473	47K ohm
R797	22584223	22K ohm
R798	22584103	10K ohm
R799	22584473	47K ohm
R800	22584103	10K ohm
R801	22584104	100K ohm
R802	22584223	22K ohm
R803, 804	22584104	100K ohm
R805	22584104	100K ohm
R806	22584225	2.2M ohm
R807	22555106	10M ohm, 1/4W
R808	22584473	47K ohm
R810	22584473	47K ohm

Symbol No.	Part No.	Description
R811	22584104	100K ohm
R812	22584102	1K ohm
R813	22550497	30K ohm, 1/4W, ±5%
R814, 815	22584473	47K ohm
R816, 817	22584333	33K ohm
R818	22584103	10K ohm
R819	22584334	330K ohm
R820	22584222	2.2K ohm
R821, 822	22584152	1.5K ohm
R823, 824	22584222	2.2K ohm
R825, 826	22584332	3.3K ohm
R827, 828	22584152	1.5K ohm
R829	22584181	180 ohm
R830	22584103	10K ohm
R831	22584391	390 ohm
R832	22547479	4.7 ohm, 1/2W
R833	22584473	47K ohm
R834	22584103	10K ohm
R835	22584221	220 ohm
R836	22584392	3.9K ohm
R837	22584391	390 ohm
R838	22570256	33 ohm, 1W, Metal Oxide Film
R839	22584473	47K ohm
R840	22584274	270K ohm
R841	22584221	220 ohm
R842	22584102	1K ohm
R843	22584103	10K ohm
R844	22584473	47K ohm
R845	22584471	470 ohm
R846	22584103	10K ohm
R847	22584473	47K ohm
R848	22584222	2.2K ohm
R849	22584472	4.7K ohm
R850	22584225	2.2M ohm
R851	22584224	220K ohm
R852	22584103	10K ohm
R853	22584473	47K ohm
R854, 855	22584103	10K ohm
R856	22584152	1.5K ohm
R858	22584102	1K ohm
R859	22658794	1K ohm, B, Semi-fixed Variable
R860	22584102	1K ohm
R861	22570674	1K ohm, 1/4W, Metal Film
R862	22584473	47K ohm
R863	22584103	10K ohm
R864	22584821	820 ohm
R865	22584561	560 ohm
R866	22584821	820 ohm
R867, 868	22584122	1.2K ohm
R869, 870	22584821	820 ohm
R871, 872	22584821	820 ohm
R873	22584472	4.7K ohm

Symbol No.	Part No.	Description
R874	22584103	10K ohm
R875	22584225	2.2M ohm
R876	22584332	3.3K ohm
R877	22584472	4.7K ohm
R878, 879	22584473	47K ohm
R880	22657313	50K ohm, A, Variable, REC Level
R881, 882	22584821	820 ohm
R883, 884	22584222	2.2K ohm
R885	22584103	10K ohm
R886	22584104	100K ohm
R887	22584103	10K ohm
R888	22584102	1K ohm
⚠ R951	22500356	1.5 ohm, 1/4W, Fusible
R952	22547471	470 ohm, 1/2W
R953	22584680	68 ohm
R954	22584104	100K ohm
R955	22584472	4.7K ohm
R956	22584473	47K ohm
⚠ R957	22500274	4.7 ohm, 1/4W, Fusible
R958	22547471	470 ohm, 1/2W
R959	22584102	1K ohm
R960	22584680	68 ohm
R961	22570312	270 ohm, 2W, Metal-Oxide Film

ACCESSORIES

AC01	22904204	Owner's Manual (TE)
AC01	22904205	Owner's Manual (TU)
AC01	22904202	Owner's Manual (TA)
AC01	22904203	Owner's Manual (TC)
AC01	22904247	Owner's Manual (VF)
AC02	22124502	Antenna Feeder
AC03	22164969	Connector Cord, 1P
AC04	22164975	Socket Connector, 13P (One-touch Connection Cord)
AC05	22990756	Head Cleaner
⚠ AC06	22164300	AC Adaptor Plug (VF)
AC07	22957761	Caution Sheet (PC-V10)

Symbol No.	Part No.	Description